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| 6.10.2.4.1.38i | Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                     | 342 |
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| 6.10.2.4.1.38k | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (L1 multiplexing)..... | 345 |
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| 6.10.2.4.1.40  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH .....                                                                          | 348 |

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| 6.10.2.4.1.42  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                              | 349 |
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| 6.10.2.4.1.44  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                           | 351 |
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| 6.10.3.4.1.12  | Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                  | 468 |
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| 6.10.3.4.1.14  | Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                      | 471 |
| 6.10.3.4.1.15  | Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                      | 473 |
| 6.10.3.4.1.16  | Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                      | 474 |
| 6.10.3.4.1.17  | Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                      | 476 |
| 6.10.3.4.1.18  | Void .....                                                                                                                        | 477 |
| 6.10.3.4.1.19  | Void .....                                                                                                                        | 477 |
| 6.10.3.4.1.20  | Void .....                                                                                                                        | 477 |
| 6.10.3.4.1.21  | Void .....                                                                                                                        | 477 |
| 6.10.3.4.1.22  | Void .....                                                                                                                        | 477 |
| 6.10.3.4.1.23  | Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                     | 477 |
| 6.10.3.4.1.23a | Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                      | 479 |
| 6.10.3.4.1.23b | Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                    | 480 |
| 6.10.3.4.1.23c | Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                    | 481 |
| 6.10.3.4.1.23d | Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4 kbps SRBs for DCCH .....                         | 483 |
| 6.10.3.4.1.24  | Void .....                                                                                                                        | 484 |
| 6.10.3.4.1.25  | Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                    | 484 |
| 6.10.3.4.1.26  | Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                    | 485 |
| 6.10.3.4.1.27  | Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                    | 486 |
| 6.10.3.4.1.28  | Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                   | 487 |
| 6.10.3.4.1.29  | Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.....                                   | 488 |
| 6.10.3.4.1.30  | Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.....                                  | 489 |
| 6.10.3.4.1.31  | Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.....                                   | 490 |
| 6.10.3.4.1.32  | Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.....                                   | 491 |
| 6.10.3.4.1.33  | Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                   | 492 |
| 6.10.3.4.1.34  | Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                   | 492 |



|                |                                                                                                                                                                                                                  |     |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 6.10.3.4.1.35  | Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                 | 493 |
| 6.10.3.4.1.36  | Void .....                                                                                                                                                                                                       | 494 |
| 6.10.3.4.1.37  | Void .....                                                                                                                                                                                                       | 494 |
| 6.10.3.4.1.38  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                          | 494 |
| 6.10.3.4.1.38a | Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                       | 496 |
| 6.10.3.4.1.38b | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                           | 497 |
| 6.10.3.4.1.38c | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                         | 498 |
| 6.10.3.4.1.38d | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH ..... | 500 |
| 6.10.3.4.1.38e | Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                      | 502 |
| 6.10.3.4.1.38f | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                   | 503 |
| 6.10.3.4.1.38g | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                  | 504 |
| 6.10.3.4.1.38h | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                  | 506 |
| 6.10.3.4.1.38i | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                  | 507 |
| 6.10.3.4.1.38j | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                 | 509 |
| 6.10.3.4.1.39  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH .....                                                        | 510 |
| 6.10.3.4.1.40  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH .....                                                        | 511 |
| 6.10.3.4.1.41  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                        | 513 |
| 6.10.3.4.1.42  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                        | 514 |
| 6.10.3.4.1.43  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                        | 516 |
| 6.10.3.4.1.44  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                     | 517 |
| 6.10.3.4.1.45  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                            | 520 |
| 6.10.3.4.1.46  | Void .....                                                                                                                                                                                                       | 521 |
| 6.10.3.4.1.47  | Void .....                                                                                                                                                                                                       | 521 |
| 6.10.3.4.1.48  | Void .....                                                                                                                                                                                                       | 521 |
| 6.10.3.4.1.49  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                           | 521 |
| 6.10.3.4.1.49a | Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                           | 522 |
| 6.10.3.4.1.50  | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                              | 523 |
| 6.10.3.4.1.51  | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                            | 524 |
| 6.10.3.4.1.51a | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                              | 526 |
| 6.10.3.4.1.51b | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                            | 527 |
| 6.10.3.4.1.52  | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                           | 527 |
| 6.10.3.4.1.53  | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                          | 528 |

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| 6.10.3.4.1.54 | Void .....                                                                                                                                                                                                                                            | 529 |
| 6.10.3.4.1.55 | Void .....                                                                                                                                                                                                                                            | 529 |
| 6.10.3.4.1.56 | Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background /<br>UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                                 | 529 |
| 6.10.3.4.1.57 | Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background /<br>UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                             | 530 |
| 6.10.3.4.1.58 | Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8<br>DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                      | 532 |
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| 6.10.3.4.1.60 | Reserved for future use .....                                                                                                                                                                                                                         | 533 |
| 6.10.3.4.1.61 | Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background /<br>UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                                  | 533 |
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| 6.10.3.4.2.1  | Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6<br>kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH.....                                                                                  | 535 |
| 6.10.3.4.2.2  | Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6<br>kbps SRBs for DCCH, CCCH and BCCH+ UL: 16.8 DL: 16 kbps SRBs for SHCCH .....                                                                                  | 541 |
| 6.10.3.4.2.3  | Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL:<br>3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for<br>SHCCH .....                                                                            | 543 |
| 6.10.3.4.2.4  | Interactive or background / UL: 384 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL:<br>3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for<br>SHCCH .....                                                                           | 544 |
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| 6.10.3.4.3.1  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs<br>for DCCH + Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 16.8 kbps<br>SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH SHCCH and BCCH.....  | 546 |
| 6.10.3.4.3.2  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs<br>for DCCH + Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 16.8 kbps<br>SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH..... | 548 |
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| 6.10.3.4.4.2a | Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB +<br>SRBs for CCCH + SRB for DCCH + SRB for BCCH .....                                                                                                                  | 552 |
| 6.10.3.4.4.2b | SRBs for CCCH + SRB for DCCH + SRB for BCCH .....                                                                                                                                                                                                     | 553 |
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| 6.10.3.4.6.3  | Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                                                                                                                                                                                    | 568 |
| 6.10.3.4.6.4  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                                                                                                                           | 568 |
| 6.10.3.4.6.5  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                                                                                                                            | 570 |
| 6.10.3.4.6.6  | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                                                                                                                              | 570 |
| 6.10.3.4.6.7  | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                                                                                                                               | 572 |
| 6.10.3.4.6.8  | Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                                                                                            | 572 |
| 6.10.3.4.6.9  | Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                                                                                              | 574 |
| 6.10.3.4.6.10 | Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                                                                           | 575 |
| 6.10.3.4.6.11 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                 | 576 |
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| 6.10.3.4.7.3  | Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH.....                                                                                                                        | 580 |
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| 6.10.3.4.7.5  | Streaming or interactive or background / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH ..... | 581 |
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| 6.11.1b       | Streaming / unknown / DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                                                                                                                                                                                                                                                                 | 585 |
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| 6.11.5.4.1.12  | Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                  | 638 |
| 6.11.5.4.1.13  | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                      | 638 |
| 6.11.5.4.1.14  | Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                      | 639 |
| 6.11.5.4.1.15  | Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                      | 640 |
| 6.11.5.4.1.16  | Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                      | 641 |
| 6.11.5.4.1.17  | Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                      | 642 |
| 6.11.5.4.1.18  | Void .....                                                                                                        | 643 |
| 6.11.5.4.1.19  | Void .....                                                                                                        | 643 |
| 6.11.5.4.1.20  | Void .....                                                                                                        | 643 |
| 6.11.5.4.1.21  | Void .....                                                                                                        | 643 |
| 6.11.5.4.1.22  | Void .....                                                                                                        | 643 |
| 6.11.5.4.1.23  | Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                     | 643 |
| 6.11.5.4.1.23a | Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                      | 644 |
| 6.11.5.4.1.23b | Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                    | 644 |
| 6.11.5.4.1.23c | Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                    | 645 |
| 6.11.5.4.1.23d | Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                    | 646 |
| 6.11.5.4.1.24  | Void. ....                                                                                                        | 647 |
| 6.11.5.4.1.25  | Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                    | 647 |
| 6.11.5.4.1.26  | Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                    | 647 |
| 6.11.5.4.1.27  | Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                    | 648 |
| 6.11.5.4.1.28  | Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                   | 648 |
| 6.11.5.4.1.29  | Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.....                   | 649 |
| 6.11.5.4.1.30  | Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.....                  | 649 |
| 6.11.5.4.1.31  | Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.....                   | 650 |
| 6.11.5.4.1.32  | Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.....                   | 650 |
| 6.11.5.4.1.33  | Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                   | 651 |
| 6.11.5.4.1.34  | Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                   | 651 |
| 6.11.5.4.1.35  | Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                  | 651 |

|                |                                                                                                                                                                                                                        |     |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 6.11.5.4.1.36  | Void .....                                                                                                                                                                                                             | 652 |
| 6.11.5.4.1.37  | Void .....                                                                                                                                                                                                             | 652 |
| 6.11.5.4.1.38  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background /<br>UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                             | 652 |
| 6.11.5.4.1.38a | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background /<br>UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                              | 653 |
| 6.11.2.5.1.38b | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background /<br>UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                              | 654 |
| 6.11.5.4.1.38c | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background /<br>UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                            | 655 |
| 6.11.5.4.1.38d | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background /<br>UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB<br>+ UL:3.4 DL:3.4 kbps SRBs for DCCH ..... | 656 |
| 6.11.5.4.1.38e | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB<br>+ Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for<br>DCCH .....                              | 657 |
| 6.11.5.4.1.38f | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS<br>RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps<br>SRBs for DCCH.....                               | 658 |
| 6.11.5.4.1.38g | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS<br>RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps<br>SRBs for DCCH.....                             | 659 |
| 6.11.5.4.1.38h | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS<br>RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps<br>SRBs for DCCH.....                             | 660 |
| 6.11.5.4.1.38i | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS<br>RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps<br>SRBs for DCCH.....                             | 661 |
| 6.11.5.4.1.38j | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS<br>RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps<br>SRBs for DCCH.....                            | 662 |
| 6.11.5.4.1.39  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background /<br>UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH .....                                                            | 663 |
| 6.11.5.4.1.40  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background /<br>UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH .....                                                            | 663 |
| 6.11.5.4.1.41  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background /<br>UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                           | 664 |
| 6.11.5.4.1.42  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background /<br>UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                           | 665 |
| 6.11.5.4.1.43  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background /<br>UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                           | 666 |
| 6.11.5.4.1.44  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background /<br>UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                        | 666 |
| 6.11.5.4.1.45  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown /<br>UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                              | 668 |
| 6.11.5.4.1.46  | Void .....                                                                                                                                                                                                             | 669 |
| 6.11.5.4.1.47  | Void .....                                                                                                                                                                                                             | 669 |
| 6.11.5.4.1.48  | Void .....                                                                                                                                                                                                             | 669 |
| 6.11.5.4.1.49  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown /<br>UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                              | 669 |
| 6.11.5.4.1.49a | Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL: 12.2 7.95 5.9 4.75 kbps / CS<br>RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps<br>SRBs for DCCH.....                             | 670 |
| 6.11.5.4.1.50  | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown /<br>UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                 | 671 |
| 6.11.5.4.1.51  | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background /<br>UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                               | 672 |
| 6.11.5.4.1.51a | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background /<br>UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                 | 673 |
| 6.11.5.4.1.51b | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background /<br>UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                               | 673 |



|               |                                                                                                                                                                                                                                                    |     |
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| 6.11.5.4.1.52 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                             | 674 |
| 6.11.5.4.1.53 | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                            | 675 |
| 6.11.5.4.1.54 | Void .....                                                                                                                                                                                                                                         | 675 |
| 6.11.5.4.1.55 | Void .....                                                                                                                                                                                                                                         | 675 |
| 6.11.5.4.1.56 | Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                                 | 675 |
| 6.11.5.4.1.57 | Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                             | 676 |
| 6.11.5.4.1.58 | Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                      | 677 |
| 6.11.5.4.1.59 | Reserved for future use .....                                                                                                                                                                                                                      | 678 |
| 6.11.5.4.1.60 | Reserved for future use .....                                                                                                                                                                                                                      | 678 |
| 6.11.5.4.1.61 | Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                                  | 678 |
| 6.11.5.4.1.62 | Interactive or background / UL:256 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                                                    | 679 |
| 6.11.5.4.1.63 | Streaming / unknown / UL:16 DL:32 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                      | 680 |
| 6.11.5.4.1.64 | Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                     | 681 |
| 6.11.5.4.1.65 | Streaming / unknown / UL:32 DL:256 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                     | 681 |
| 6.11.5.4.1.66 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                         | 683 |
| 6.11.5.4.1.67 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                           | 683 |
| 6.11.5.4.1.68 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                          | 684 |
| 6.11.5.4.1.69 | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                          | 685 |
| 6.11.5.4.1.70 | Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                             | 686 |
| 6.11.5.4.2    | Combinations on PDSCH, SCCPCH, PUSCH and PRACH.....                                                                                                                                                                                                | 688 |
| 6.11.5.4.2.1  | Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH .....                                                                                 | 688 |
| 6.11.5.4.2.2  | Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH+ UL: 16.8 DL: 16 kbps SRBs for SHCCH .....                                                                                  | 690 |
| 6.11.5.4.2.3  | Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH .....                                                                               | 691 |
| 6.11.5.4.3    | Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH .....                                                                                                                                                                                         | 693 |
| 6.11.5.4.3.1  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.....     | 693 |
| 6.11.5.4.3.2  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.....     | 694 |
| 6.11.5.4.3.3  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH ..... | 695 |
| 6.11.5.4.4    | Combinations on SCCPCH .....                                                                                                                                                                                                                       | 696 |
| 6.11.5.4.4.1  | Stand-alone signalling RB for PCCH .....                                                                                                                                                                                                           | 696 |
| 6.11.5.4.4.2  | Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH .....                                                                                                                                                          | 696 |

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| 6.11.5.4.4.2a | Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB +<br>SRBs for CCCH + SRB for DCCH + SRB for BCCH .....                                                                                                                                              | 697 |
| 6.11.5.4.4.2b | SRBs for CCCH + SRB for DCCH + SRB for BCCH .....                                                                                                                                                                                                                                 | 698 |
| 6.11.5.4.4.3  | Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for<br>DCCH + SRB for BCCH .....                                                                                                                                                                           | 698 |
| 6.11.5.4.4.3a | SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH .....                                                                                                                                                                                                                   | 699 |
| 6.11.5.4.4.4  | RB for CTCH + SRB for CCCH + SRB for BCCH .....                                                                                                                                                                                                                                   | 699 |
| 6.11.5.4.4.5  | 64.8kbps RB for MTCH with 40 ms TTI.....                                                                                                                                                                                                                                          | 700 |
| 6.11.5.4.4.6  | 129.6 kbps RB for MTCH with 40 ms TTI.....                                                                                                                                                                                                                                        | 701 |
| 6.11.5.4.4.7  | 259.2 kbps RB for MTCH with 40 ms TTI.....                                                                                                                                                                                                                                        | 702 |
| 6.11.5.4.4.8  | 7.6 kbps signalling RB for MCCH.....                                                                                                                                                                                                                                              | 703 |
| 6.11.5.4.4.9  | 128kbps RB for MBSFN MTCH with 40 ms TTI .....                                                                                                                                                                                                                                    | 703 |
| 6.11.5.4.4.10 | 192 kbps RB for MBSFN MTCH with 40 ms TTI .....                                                                                                                                                                                                                                   | 704 |
| 6.11.5.4.4.11 | 384 kbps RB for MBSFN MTCH with 40 ms TTI .....                                                                                                                                                                                                                                   | 705 |
| 6.11.5.4.4.12 | 7.2 kbps signalling RB for MBSFN MCCH .....                                                                                                                                                                                                                                       | 706 |
| 6.11.5.4.4.13 | 8kbps RB for MBSFN MTCH with 40 ms TTI .....                                                                                                                                                                                                                                      | 707 |
| 6.11.5.4.4.14 | 64kbps RB for MBSFN MTCH with 40 ms TTI.....                                                                                                                                                                                                                                      | 708 |
| 6.11.5.4.5    | Combinations on PRACH .....                                                                                                                                                                                                                                                       | 708 |
| 6.11.5.4.5.1  | SRB for CCCH + SRBs for DCCH .....                                                                                                                                                                                                                                                | 708 |
| 6.11.5.4.5.2  | Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH.....                                                                                                                                                                                                       | 709 |
| 6.11.5.4.5.3  | Interactive/Background 12.8 kbps PS RAB + Interactive/Background 12.8 kbps PS RAB<br>+ SRB for CCCH + SRB for DCCH.....                                                                                                                                                           | 709 |
| 6.11.5.4.6    | Combinations on DPCH and HS-PDSCH .....                                                                                                                                                                                                                                           | 710 |
| 6.11.5.4.6.1  | Interactive or background / UL:8 DL: [max bit rate depending on UE category] / PS RAB<br>+ UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                                                                                 | 710 |
| 6.11.5.4.6.1a | Interactive or background / UL:8 (multiframe) DL: [max bit rate depending on UE<br>category] / PS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH (multiframe) (REL-5).....                                                                                                                 | 714 |
| 6.11.5.4.6.1b | Interactive or background / UL:8 DL: [max bit rate depending on UE category] / PS RAB<br>+ UL:3.4 DL:3.4 kbps SRBs for DCCH (64QAM) .....                                                                                                                                         | 715 |
| 6.11.5.4.6.2  | Interactive or background / UL:16 DL: [max bit rate depending on UE category] / PS<br>RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5).....                                                                                                                                         | 719 |
| 6.11.5.4.6.2a | Interactive or background / UL:16(multiframe) DL: [max bit rate depending on UE<br>category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH(multiframe) (REL-5).....                                                                                                                 | 719 |
| 6.11.5.4.6.3  | Interactive or background / UL:32 DL: [max bit rate depending on UE category] / PS<br>RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5).....                                                                                                                                         | 720 |
| 6.11.5.4.6.3a | Interactive or background / UL:32(multiframe) DL: [max bit rate depending on UE<br>category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH(multiframe) (REL-5).....                                                                                                                 | 720 |
| 6.11.5.4.6.4  | Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS<br>RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5).....                                                                                                                                         | 721 |
| 6.11.5.4.6.5  | Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS<br>RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5).....                                                                                                                                        | 721 |
| 6.11.5.4.6.6  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background /<br>UL:32 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps<br>SRBs for DCCH (REL-5) .....                                                                            | 721 |
| 6.11.5.4.6.7  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background /<br>UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps<br>SRBs for DCCH (REL-5) .....                                                                            | 722 |
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| 6.11.6.4.1.30  | Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.....                                                                                                                 | 804 |
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| 6.11.6.4.1.32  | Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.....                                                                                                                  | 806 |
| 6.11.6.4.1.33  | Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                  | 807 |
| 6.11.6.4.1.34  | Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                  | 807 |
| 6.11.6.4.1.35  | Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                                 | 808 |
| 6.11.6.4.1.36  | Void .....                                                                                                                                                                                                       | 809 |
| 6.11.6.4.1.37  | Void .....                                                                                                                                                                                                       | 809 |
| 6.11.6.4.1.38  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                          | 809 |
| 6.11.6.4.1.38a | Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                       | 811 |
| 6.11.6.4.1.38b | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                           | 812 |
| 6.11.6.4.1.38c | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                         | 813 |
| 6.11.6.4.1.38d | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH ..... | 815 |
| 6.11.6.4.1.38e | Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                      | 817 |
| 6.11.6.4.1.38f | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                   | 818 |
| 6.11.6.4.1.38g | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                  | 819 |
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| 6.11.6.4.1.38i | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                  | 822 |
| 6.11.6.4.1.38j | Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                 | 824 |
| 6.11.6.4.1.39  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH .....                                                         | 825 |

|                |                                                                                                                                                                                                                                                 |     |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 6.11.6.4.1.40  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH .....                                                                                        | 826 |
| 6.11.6.4.1.41  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                       | 828 |
| 6.11.6.4.1.42  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                       | 829 |
| 6.11.6.4.1.43  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                       | 831 |
| 6.11.6.4.1.44  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                    | 832 |
| 6.11.6.4.1.45  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                          | 835 |
| 6.11.6.4.1.46  | Void .....                                                                                                                                                                                                                                      | 836 |
| 6.11.6.4.1.47  | Void .....                                                                                                                                                                                                                                      | 836 |
| 6.11.6.4.1.48  | Void .....                                                                                                                                                                                                                                      | 836 |
| 6.11.6.4.1.49  | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                         | 836 |
| 6.11.6.4.1.49a | Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                          | 837 |
| 6.11.6.4.1.50  | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                            | 838 |
| 6.11.6.4.1.51  | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                           | 839 |
| 6.11.6.4.1.51a | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                             | 841 |
| 6.11.6.4.1.51b | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                           | 842 |
| 6.11.6.4.1.52  | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                          | 842 |
| 6.11.6.4.1.53  | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                         | 843 |
| 6.11.6.4.1.54  | Void .....                                                                                                                                                                                                                                      | 844 |
| 6.11.6.4.1.55  | Void .....                                                                                                                                                                                                                                      | 844 |
| 6.11.6.4.1.56  | Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                              | 844 |
| 6.11.6.4.1.57  | Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                          | 845 |
| 6.11.6.4.1.58  | Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                   | 847 |
| 6.11.6.4.1.59  | Reserved for future use .....                                                                                                                                                                                                                   | 848 |
| 6.11.6.4.1.60  | Reserved for future use .....                                                                                                                                                                                                                   | 848 |
| 6.11.6.4.1.61  | Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH .....                                                                                               | 848 |
| 6.11.6.4.2     | Combinations on PDSCH, SCCPCH, PUSCH and PRACH.....                                                                                                                                                                                             | 850 |
| 6.11.6.4.2.1   | Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH.....                                                                               | 850 |
| 6.11.6.4.2.2   | Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH+ UL: 16.8 DL: 16 kbps SRBs for SHCCH .....                                                                               | 856 |
| 6.11.6.4.2.3   | Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH .....                                                                            | 858 |
| 6.11.6.4.2.4   | Interactive or background / UL: 384 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH .....                                                                           | 859 |
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|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 6.11.6.4.3.3   | Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH ..                                                     | 864 |
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| 6.11.6.4.6.6   | Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                                                                               | 885 |
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| 6.11.6.4.6.10  | Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.....                                                            | 890 |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                    |     |
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## Foreword

This Technical Specification has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

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## Introduction

The definition of the Conformance Tests for UE in 3G will be a complex task as the complete test suite covers RF, EMC and Protocol aspects of the UE.

Each test requires a Test Environment to be defined in which the UE has to operate to defined standards, constraints and performance. The overall task can be simplified if there are a number of well defined and agreed Common Test Environments where every one can be used for a number of tests. Hence the present document defines testing conditions that are common to several tests avoiding the need to duplicate the same information for every single test.

The present document defines default values for a variety of common areas. Where values are not specified in test cases, the defaults in the present document will apply. If specified, the test case values will take precedence.

The present document addresses the FDD mode as well as the TDD mode.

---

# 1 Scope

The present document contains definitions of reference conditions and test signals, default parameters, reference radio bearer configurations used in radio bearer interoperability testing, common radio bearer configurations for other test purposes, common requirements for test equipment and generic set-up procedures for use in UE conformance tests.

---

## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document unless the context in which the reference is made suggests a different Release is relevant (information on the applicable release in a particular context can be found in e.g. test case title, description or applicability, message description or content).

- [1] 3GPP TS 34.123-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [2] 3GPP TS 34.121-1: " User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification ".
- [2a] 3GPP TS 34.121-2: "User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)".
- [3] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [4] 3GPP TS 34.124: "Electromagnetic Compatibility (EMC) requirements for Mobile terminals and ancillary equipment".
- [5] 3GPP TS 34.122: "Terminal Conformance Specification; Radio Transmission and Reception (TDD)".
- [6] 3GPP TS 34.109: "Terminal logical test interface; Special conformance testing functions".
- [7] 3GPP TS 25.301 "Radio interface protocol architecture".
- [8] 3GPP TS 25.214: "Physical layer procedures (FDD)".
- [9] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [10] 3GPP TR 25.990: "Vocabulary".
- [11] 3GPP TS 25.101: "User Equipment (UE) radio transmission and reception (FDD)".
- [12] 3GPP TS 25.102: "User Equipment (UE) radio transmission and reception (TDD)".
- [13] 3GPP TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".
- [14] 3GPP TS 25.212: "Multiplexing and channel coding (FDD)".
- [15] 3GPP TS 23.107: "Quality of Service (QoS) concept and architecture".
- [16] 3GPP TS 26.110: "Codec for circuit switched multimedia telephony service; General description".

- [17] 3GPP TS 29.007: "General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)".
- [18] 3GPP TR 23.910: "Circuit switched data bearer service".
- [19] Void.
- [20] 3GPP TS 25.104: "Base Station (BS) radio Transmission and Reception (FDD)".
- [21] 3GPP TS 25.105: "Base Station (BS) radio Transmission and Reception (TDD)".
- [22] 3GPP TS 31.101: "UICC-terminal interface; Physical and logical characteristics".
- [23] 3GPP TS 31.102: "Characteristics of the USIM application".
- [24] 3GPP TS 33.102: "3G security; Security architecture".
- [25] 3GPP TS 33.103: "3G security; Integration guidelines".
- [26] 3GPP TS 33.105: "Cryptographic algorithm requirements".
- [27] 3GPP TS 25.224: "Physical layer procedures (TDD)".
- [28] 3GPP TS 25.221: "Physical channels and mapping of transport channels onto physical channels (TDD)".
- [29] 3GPP TS 25.222: "Multiplexing and channel coding (TDD)".
- [30] 3GPP TS 25.133: "Requirements for support of radio resource management (FDD)".
- [31] 3GPP TS 51.010-1: "Mobile Station (MS) conformance specification; Part 1: Conformance specification".
- [32] 3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core network protocols; Stage 3".
- [33] 3GPP TS 25.171: "Requirements for support of Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)".
- [34] 3GPP TS 25.331: "Radio Resource Control (RRC) protocol specification".
- [35] 3GPP TS 25.223: "Spreading and modulation (TDD)".
- [36] 3GPP TS 25.304: "User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode".
- [37] 3GPP TS 25.123: "Requirements for support of radio resource management (TDD)".
- [38] 3GPP TS 25.321: "Medium Access Control (MAC) protocol specification".
- [39] 3GPP TS 31.120: "UICC-terminal interface; Physical, electrical and logical test specification".
- [40] 3GPP TS 31.121: "Base Station System (BSS) equipment specification; Radio aspects".
- [41] 3GPP TS 34.171: "Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)".
- [42] 3GPP TS 23.032: "Universal Geographical Area Description (GAD)".
- [43] NATO Standard Agreement STANAG 4294 Issue 1
- [44] 3GPP TS 43.020: "Security related network functions".
- [45] 3GPP TS 36.508: "Common test environments for User Equipment (UE) conformance testing".
- [46] 3GPP TS 34.229-1: "Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".

- [47] 3GPP TS 37.571-1: "Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 1: Conformance test specification".
- [48] 3GPP TS 37.571-5: "Universal Terrestrial Radio Access (UTRA) and Evolved UTRA (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification for UE positioning; Part 5: Test scenarios and assistance data".

## 3 Definitions, abbreviations and symbols

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [9], 3GPP TR 25.990 [10] and the following apply:

**maximum average power:** average transmitter output power obtained over any specified time interval, including periods with no transmission, when the transmit time slots are at the maximum power setting

### 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [9], 3GPP TR 25.990 [10] and the following apply:

|             |                                                                      |
|-------------|----------------------------------------------------------------------|
| 4C-HSDPA    | Four-Carrier HSDPA. HSDPA operation configured on 3 or 4 DL carriers |
| AFC         | Automatic Frequency Control                                          |
| A-GPS       | Assisted - Global Positioning System                                 |
| AM          | Acknowledgement Mode                                                 |
| ATT         | ATTenuator                                                           |
| BCCH        | Broadcast Control Channel                                            |
| CBS         | Cell Broadcast Service                                               |
| CC          | Convolutional Coding                                                 |
| CCCH        | Common Control Channel                                               |
| CCTrCH      | Coded Composite Transport Channel                                    |
| CS          | Circuit Switching                                                    |
| DB-DC-HSDPA | Dual Band Dual Cell HSDPA                                            |
| DB-DF-3C    | Dual Band Dual Frequency Three Cell                                  |
| DB-DF-4C    | Dual Band Dual Frequency Four Cell                                   |
| DC-HSDPA    | Dual Cell HSDPA                                                      |
| DCCH        | Dedicated Control Channel                                            |
| DL          | DownLink                                                             |
| DPCH        | Dedicated Physical Channel                                           |
| DT          | Direct transfer                                                      |
| DTCH        | Dedicated Traffic Channel                                            |
| FTM         | File Tunnelling Mode                                                 |
| GPS         | Global Positioning System                                            |
| GSS         | GPS System Simulator                                                 |
| HYB         | HYBrid                                                               |
| IMB         | Integrated Mobile Broadcast                                          |
| MF-HSDPA    | Multiflow HSDPA                                                      |
| NAS         | Non-Access Stratum                                                   |
| OBW         | Occupied BandWidth                                                   |
| OCNS        | Orthogonal Channel Noise Simulator                                   |

NOTE: A mechanism used to simulate the users or control signals on the other orthogonal channels of a downlink.

|       |                                |
|-------|--------------------------------|
| PRACH | Physical Random Access Channel |
| PS    | Packet Switching               |
| RAB   | Radio Access Bearer            |
| RB    | Radio Bearer                   |
| RRC   | Radio Resource Control         |

NOTE: (for sub-Layer of layer 3) but also Root-Raised Cosine (for Filter shape).

|          |                                           |
|----------|-------------------------------------------|
| SB-DF-3C | Single Band Dual Frequency Three Cell     |
| SCCPCH   | Secondary Common Control Physical Channel |
| SMS      | Short Message Service                     |
| SRB      | Signalling Radio Bearer                   |
| SS       | System Simulator                          |
| SSD      | Source Statistics Descriptor              |
| TC       | Turbo Coding                              |
| TLM      | TeLeMetry word                            |

NOTE: It contains an 8-bits preamble (10001011).

|     |                        |
|-----|------------------------|
| TM  | Transparent Mode       |
| TOW | Time Of Week           |
| TTF | Time To First Fix      |
| UL  | UpLink                 |
| UM  | Unacknowledgement Mode |

### 3.3 Symbols

For the purposes of the present document, the following symbols apply:

|          |                                                                                                                                                     |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| $I_{oc}$ | The power spectral density of a band limited white noise source (simulating interference from other cells) as measured at the UE antenna connector. |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

---

## 4 Common requirements of test equipment

Mobile conformance testing can be categorized into 3 distinct areas:

- RF Conformance Testing.
- EMC Conformance Testing.
- Signalling Conformance Testing.

The test equipment required for each category of testing may or not be different, depending on the supplier of the test equipment. However, there will be some generic requirements of the test equipment that are essential for all three categories of test, and these are specified in this clause.

In addition, there will be requirements to test operation in multi-system configurations (e.g. UTRA plus GSM/DCS1800). However, these would not form a common test equipment requirement for the three test areas and are not considered in the present document.

### 4.1 General Functional Requirements

NOTE: This clause has been written such that it does not constrain the implementation of different architectures and designs of test equipment.

All test equipment used to perform conformance testing on a UE shall provide a platform suitable for testing UE's that are either:

- a) FDD Mode; or
- b) TDD Mode; or
- c) both FDD/TDD Modes.

All test equipment shall provide (for the mode(s) supported) the following minimum functionality.

- The capability of emulating a single UTRA cell with the appropriate channels to allow the UE to register on the cell.

- The capability to allow the UE to set up an RRC connection with the System Simulator, and to maintain the connection for the duration of the test.
- The capability (for the specific test):
  - to select and support an appropriate Radio Bearer for the downlink;
  - to set the appropriate downlink power levels;
  - to set up and support the appropriate Radio Bearer for the uplink;
  - to set and control the uplink power levels.

## 4.2 Minimum performance levels

### 4.2.1 Supported Cell Configuration

The System Simulator shall provide the capability to simulate a minimum number of cells (of the appropriate UTRA Mode) whose number and capabilities are governed by the test cases that need to be performed (test cases are defined in 3GPP TS 34.123-1 [1] (Signalling), 3GPP TS 34.121 [2] (RF-FDD) and 3GPP TS 34.122 [5] (RF-TDD)). For this purpose test cases can be split into two different categories: Tests that require only one cell and Tests that require several cells.

To perform test cases requiring one cell, the system simulator must provide a Cell offering the capabilities to perform all the test cases in this category.

To perform test cases requiring several cells, additional cells must be provided by the system simulator. The additional cells, however, need only provide a minimum set of capabilities so as to support the first cell in carrying out the multi-cell test cases.

To perform test cases for MBMS in MBSFN mode the SS must provide simultaneous support for both the MBSFN cell(s) (TDD or FDD) directly applicable to the test cases and must also provide support for cells(s) on a unicast carrier providing other necessary services to the UE such as PLMN registration. The choice of supporting unicast carrier cell(s) may be TDD or FDD decided by the capabilities of the UE under test, and the choice may be independent of the mode (TDD or FDD) of the MBSFN cell(s).

The type and number of channels (especially physical channels) constitute an important set of capabilities for a cell. The following clauses list possible channels that may be supported by the SS. Each channel type, however, and the minimum number of channels needed are only mandatory if specific test cases require them.

The mapping between Logical and Transport channels is as described in 3GPP TS 25.301 [7]. Similarly the mapping between Transport channels and Physical channels is as described in 3GPP TS 25.211 [13] for the FDD mode, and 3GPP TS 25.221 [28] for the TDD mode. The reference measurement channels (mapping between Transport channels and Physical channels for DTCH/DCCH to be tested) are defined in 3GPP TS 34.121 [2] annex C for FDD and 3GPP TS 34.122 [5] annex C for TDD.

#### 4.2.1.1 Supported Channels for FDD Mode

##### 4.2.1.1.1 Logical channels

| Logical channel | Minimum number | Comments                                                                                 |
|-----------------|----------------|------------------------------------------------------------------------------------------|
| BCCH            | 1              |                                                                                          |
| CCCH            | 1              |                                                                                          |
| DCCH            | 4              | 2 for RRC testing, 2 for NAS testing                                                     |
| PCCH            | 1              |                                                                                          |
| DTCH            | n <FFS>        | Depending on SS's support for RB service testing (See clause 14 of 3GPP TS 34.123-1 [1]) |

##### 4.2.1.1.2 Transport channels

| Transport channel | Minimum number | Comments |
|-------------------|----------------|----------|
| BCH               | 1              |          |
| FACH              | 1              |          |

|        |         |                                |
|--------|---------|--------------------------------|
| PCH    | 1       |                                |
| DCH    | n <FFS> |                                |
| DSCH   | 1       | Release 99 and Release 4 only. |
| RACH   | 2       |                                |
| CPCH   | 1       | Release 99 and Release 4 only. |
| FAUSCH | N/A     | Not in Release 1999            |

#### 4.2.1.1.3 Physical channels

| Physical channel | Minimum number   | Comments                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P-CCPCH          | 1                | Primary Common Control Physical channel. This is used by the Cell to Broadcast System Information messages; it is transmitted using the Primary Scrambling Code for the Cell.                                                                                                                                                                                                                              |
| P-CPICH          | 1                | Primary Common Pilot Channel using the Primary Scrambling Code for the Cell.                                                                                                                                                                                                                                                                                                                               |
| S-CPICH          | 1 (For RF Tests) | Secondary Common Pilot Channel. This signal is used as the phase reference for some RF tests.                                                                                                                                                                                                                                                                                                              |
| SCH              | 1                | Synchronization Channel (includes P-SCH and S-SCH)                                                                                                                                                                                                                                                                                                                                                         |
| S-CCPCH          | 2                | Secondary Common Control Physical channel.                                                                                                                                                                                                                                                                                                                                                                 |
| PICH             | 1                | To identify when the UE should access the PCCH for Paging Messages.                                                                                                                                                                                                                                                                                                                                        |
| AICH             | 1                | General Acquisition Indicator Channel that can be used for: <ul style="list-style-type: none"> <li>- Acquisition Indicator Channel, for PRACH</li> <li>- Access Preamble Acquisition Indicator Channel (AP-ICH), for PCPCH. (For release 99 and release 4 only)</li> <li>- Collision-Detection/Channel-Assignment Indicator Channel (CD/CA-ICH), for PCPCH. (For release 99 and release 4 only)</li> </ul> |
| DPDCH            | 3                | Downlink Physical Data Channel. There will be a single DPCCCH associated with all the DPDCHs used for Layer 1 signalling. This number is for the First Cell. Additional Cells may define a lower number which should be at least 1.                                                                                                                                                                        |
| PDSCH            | 1                | Physical Downlink Shared Channel. Release 99 and Release 4 only.                                                                                                                                                                                                                                                                                                                                           |
| DPCH             | 1                | Uplink Dedicated Physical channel                                                                                                                                                                                                                                                                                                                                                                          |
| PRACH            | 2                | Physical Random Access Channel.                                                                                                                                                                                                                                                                                                                                                                            |
| PCPCH            | 1                | Physical Common Packet Channel. (For release 99 and release 4 only)                                                                                                                                                                                                                                                                                                                                        |
| CSICH            | 1                | CPCH Status Indicator Channel. (For release 99 and release 4 only)                                                                                                                                                                                                                                                                                                                                         |

#### 4.2.1.2 Supported Channels for TDD Mode

##### 4.2.1.2.1 Logical channels

| Logical channel         | Minimum number | Comments                                                                                                                                                                                                                                                                                         |
|-------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Control channels</b> |                |                                                                                                                                                                                                                                                                                                  |
| BCCH                    | 1              | Broadcast Control Channel: DL channel for broadcasting system control information.                                                                                                                                                                                                               |
| CCCH                    | 1              | Common Control Channel: Bi-directional channel for transmitting control information between network and UEs. This channel is commonly used by the UEs having no RRC connection with the network and by the UEs using common transport channels when accessing a new cell after cell reselection. |
| DCCH                    | 4              | Dedicated Control Channel: A point-to-point bi-directional channel that transmits dedicated control information between a UE and the network. This channel is established through RRC connection setup procedure. 2 channels for RRC testing and 2 channels for NAS testing estimated.           |
| PCCH                    | 1              | Paging Control Channel: DL channel that transfers paging information. This channel is used when the network does not know the location cell of the UE, or, the UE is in the cell connected state                                                                                                 |
| SHCCH                   | 1              | Shared Channel Control Channel: Bi-directional channel that transmits control information for uplink and downlink shared channels between network and UEs. This channel is for TDD only.                                                                                                         |
| <b>Traffic channels</b> |                |                                                                                                                                                                                                                                                                                                  |
| DTCH                    | 1              | Dedicated Traffic Channel is a point-to-point channel, dedicated to one UE, for the transfer of user information. A DTCH can exist in both UL and DL.                                                                                                                                            |

|      |   |                                                                                                                                                        |
|------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| CTCH | 1 | Common Traffic Channel is a point-to-multipoint unidirectional channel for transfer of dedicated user information for all or a group of specified UEs. |
|------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 4.2.1.2.2 Transport channels

| Transport channel | Minimum number | Comments                                                                                                                                                                                    |
|-------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BCH               | 1              | Broadcast Channel: DL channel used to broadcast system and cell-specific information.                                                                                                       |
| FACH              | 1              | Forward Access Channel: DL channel used to carry control information to a mobile station when the system knows the location cell of the mobile station (may also carry short user packets). |
| PCH               | 1              | Paging Channel: DL channel used to carry control information to a mobile station when the system does not know the location cell of the mobile station.                                     |
| DCH               | 2              | Dedicated Channel: UL or DL channel used to carry user or control information between the UTRAN and a UE                                                                                    |
| DSCH              | 1              | DL shared channel: DL channel shared by several UEs carrying dedicated control or traffic data.                                                                                             |
| USCH              | 1              | UL shared channel: UL channel shared by several UEs carrying dedicated control or traffic data.                                                                                             |
| RACH              | 1              | Random Access Channel: UL channel used to carry control information from mobile station. The RACH may also carry short user packets.                                                        |

#### 4.2.1.2.3 Physical channels (3.84 Mcps option)

| Physical channel | Minimum number | Comments                                                                                                                                                                                                                                                      |
|------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P-CCPCH          | 1              | Primary Common Control Physical channel. . The BCH as described in clause 4.2.1 is mapped onto the P-CCPCH. The position (time slot / code) of the P-CCPCH is known from PSCH.                                                                                |
| SCH              | 1              | Synchronization Channel. Code group of a cell can be derived from the synchronization channel. In order not to limit the uplink/downlink asymmetry the SCH is mapped on one or two downlink slots per frame only.                                             |
| S-CCPCH          | 2              | Secondary Common Control Physical channel. PCH and FACH as described in clause 4.2.1 are mapped onto one or more S-CCPCH.                                                                                                                                     |
| PICH             |                | Paging Indicator Channel is a physical channel used to carry the paging indicators.                                                                                                                                                                           |
| DPCH (DL)        | 3              | Downlink Dedicated Physical channel. DCH channels are mapped onto DPCH                                                                                                                                                                                        |
| PDSCH            | 1              | Physical Downlink Shared Channel. DSCH as described in clause 4.2.1 is mapped onto one or more PDSCH.                                                                                                                                                         |
| DPCH (UL)        | 1              | Uplink Dedicated Physical channel. DCH channels are mapped onto DPCH.                                                                                                                                                                                         |
| PUSCH            | 1              | Physical Uplink Shared Channel. The USCH as described in clause 4.2.1 is mapped onto one or more PUSCH. Timing advance, as described in 3GPP TS 25.224 [27], clause 4.3, is applied to the PUSCH.                                                             |
| PRACH            | 2              | Physical Random Access Channel. The RACH as described in clause 4.2.1 is mapped onto PRACH                                                                                                                                                                    |
| PNBSCH           | 1              | Physical node B synchronization channel: In case cell sync bursts are used for Node B synchronization the PNBSCH shall be used for the transmission of the cell sync burst 3GPP TS 25.223 [35]. The PNBSCH shall be mapped on the same timeslot as the PRACH. |

#### 4.2.1.2.4 Physical channels (1.28 Mcps option)

| Physical channel | Minimum number | Comments                                                                                                                                                                                                                                                                                                   |
|------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P-CCPCH          | 2              | Primary Common Control Physical channel. The BCH as described in clause 4.2.1 is mapped onto the P-CCPCH1 and P-CCPCH2. The position (time slot / code) of the P-CCPCHs is fixed in the 1.28 Mcps TDD. The P-CCPCHs are mapped onto the first two code channels of timeslot#0 with spreading factor of 16. |
| DwPCH            | 1              | Synchronization Channel for DL. Present in each 5 ms subframe.                                                                                                                                                                                                                                             |
| UpPCH            | 1              | Synchronization Channel for UL. Present in each 5 ms subframe.                                                                                                                                                                                                                                             |
| S-CCPCH          | 2              | Secondary Common Control Physical channel. PCH and FACH as described in clause 4.2.1 are mapped onto one or more S-CCPCH.                                                                                                                                                                                  |



|           |   |                                                                                                                                                                                                           |
|-----------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PICH      |   | Paging Indicator Channel is a physical channel used to carry the paging indicators.                                                                                                                       |
| DPCH (DL) | 3 | Downlink Dedicated Physical channel. DCH channels are mapped onto DPCH.                                                                                                                                   |
| PDSCH     | 1 | Physical Downlink Shared Channel. PDSCH provides the possibility for transmission of TFCI, SS, and TPC in downlink.                                                                                       |
| DPCH (UL) | 1 | Uplink Dedicated Physical channel. DCH channels are mapped onto DPCH.                                                                                                                                     |
| PUSCH     | 1 | Physical Uplink Shared Channel. PUSCH provides the possibility for transmission of TFCI, SS, and TPC in uplink.                                                                                           |
| FPACH     | 1 | Fast Physical Access Channel. FPACH is used by the Node B to carry, in a single burst, the acknowledgement of a detected signature with timing and power level adjustment indication to a user equipment. |
| PRACH     | 2 | Physical Random Access Channel. The RACH as described in clause 4.2.1 is mapped onto one or more uplink Physical Random Access Channels (PRACH).                                                          |

#### 4.2.1.2A Supported Channels for MBSFN (FDD and TDD Mode)

##### 4.2.1.2A.1 Logical channels

| Logical channel         | Minimum number | Comments                                                                                                                                                                                                                                                                |
|-------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Control channels</b> |                |                                                                                                                                                                                                                                                                         |
| BCCH                    | 1              | Broadcast Control Channel: DL channel for broadcasting system control information.                                                                                                                                                                                      |
| MCCH                    | 1              | MBMS point-to-multipoint Control Channel: A point-to-multipoint downlink channel used for transmitting control information from the network to the UE. This channel is only used by UEs that receive MBMS.                                                              |
| MSCH                    | 1              | MBMS point-to-multipoint Scheduling Channel: A point-to-multipoint downlink channel used for transmitting scheduling control information, from the network to the UE, for one or several MTCHs carried on a CCTrCH. This channel is only used by UEs that receive MBMS. |
| <b>Traffic channels</b> |                |                                                                                                                                                                                                                                                                         |
| MTCH                    | 1              | MBMS point-to-multipoint Traffic Channel: A point-to-multipoint downlink channel used for transmitting traffic data from the network to the UE. This channel is only used for MBMS.                                                                                     |

##### 4.2.1.2A.2 Transport channels

| Transport channel | Minimum number | Comments                                                                                                                                                                                                     |
|-------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BCH               | 1              | Broadcast Channel: DL channel used to broadcast system and cell-specific information.                                                                                                                        |
| FACH              | 2              | Forward Access Channel: Common downlink channel without closed-loop power control used for transmission of relatively small amounts of data. In addition FACH is used to carry broadcast and multicast data. |

##### 4.2.1.2A.3 Physical channels (3.84/7.68 Mcps options)

| Physical channel | Minimum number | Comments                                                                                                                                                                                                          |
|------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P-CCPCH          | 1              | Primary Common Control Physical channel: The BCH as described in clause 4.2.1 is mapped onto the P-CCPCH. The position (time slot / code) of the P-CCPCH is known from PSCH.                                      |
| SCH              | 1              | Synchronization Channel: Code group of a cell can be derived from the synchronization channel. In order not to limit the uplink/downlink asymmetry the SCH is mapped on one or two downlink slots per frame only. |
| S-CCPCH          | 2              | Secondary Common Control Physical channel: FACH as described in clause 4.2.1 is mapped onto one or more S-CCPCH.                                                                                                  |
| MICH             | 1              | MBMS Indicator Channel: Used to carry the MBMS notification indicators                                                                                                                                            |

##### 4.2.1.2A.3A Physical channels (3.84 Mcps TDD IMB option)

| Physical channel | Minimum number | Comments                                                                     |
|------------------|----------------|------------------------------------------------------------------------------|
| P-CPICH          | 1              | Primary Common Pilot Channel using the Primary Scrambling Code for the Cell. |

|                |   |                                                                                                                                         |
|----------------|---|-----------------------------------------------------------------------------------------------------------------------------------------|
| T-CPICH        | 1 | Time multiplexed Common Pilot Channel using the same Scrambling Code as P-CPICH for the Cell.                                           |
| P-CCPCH        | 1 | Primary Common Control Physical channel: The BCH as described in clause 4.2.1.2A.2 is mapped onto the P-CCPCH.                          |
| SCH            | 1 | Synchronization Channel (includes P-SCH and S-SCH)                                                                                      |
| S-CCPCH        | 1 | Secondary Common Control Physical channel: FACH carrying MCCH logical channel is mapped onto one S-CCPCH.                               |
| S-CCPCH Type 2 | 1 | Secondary Common Control Physical Channel Type 2: one or more FACH carrying MTCH logical channels is/are mapped onto one S-CCPCH Type 2 |
| MICH           | 1 | MBMS Indicator Channel: Used to carry the MBMS notification indicators                                                                  |

### 4.2.1.3 Support of $T_{\text{cell}}$ timing offset

In test case parameter declarations, the parameter  $T_{\text{cell}}$  may be specified between 0 to 38 399, to allow for extensibility. However, the system simulator is required only to support a maximum  $T_{\text{cell}}$  value of 2 304, with a step resolution of 256. The SS may limit a  $T_{\text{cell}}$  value of greater than 2 304, and may round  $T_{\text{cell}}$  to the nearest multiple of 256.

## 4.2.2 RF Performance

### 4.2.2.1 Frequency of Operation

The System Simulator shall be capable of adjusting the Carrier Frequency of the DL channels to any frequency allowed in the DL frequency band. The DL frequency shall be accurate to the level of accuracy set by the core specifications 3GPP TS 25.104 [20] for FDD and 3GPP TS 25.105 [21] for TDD.

For RF tests, the requirement of Test Equipment is described in 3GPP TS 34.121 [2] annex F for FDD and 3GPP TS 34.122 [5] annex F for TDD respectively.

### 4.2.2.2 Power Level Setting Accuracy

The system simulator shall be able to adjust the average power output of the DL Channels to meet the absolute accuracy of the system simulator DL power levels covered in clause 5.4.1 Downlink Signal Levels.

For RF tests, the requirement of Test Equipment is described in 3GPP TS 34.121 [2] annex F for FDD and 3GPP TS 34.122 [5] annex F for TDD respectively.

The system simulator shall be capable of altering the power of the DL Dedicated channels under control of the UE Layer 1 Signalling information.

### 4.2.2.3 Uplink Power Control

The system simulator shall be able to command the UE to transmit at the maximum level for its power class or a lower level required for specific tests. The system simulator shall also provide the capability of generating the Layer 1 Signalling information to set the power levels of the Uplink Dedicated Channels from the UE to lower levels if required.

### 4.2.2.4 Uplink Signal Handling

For FDD mode, the System Simulator shall not be damaged by a Power Class 1 UE transmitting at the maximum power level permitted in 3GPP TS 25.101 [11] and for TDD mode by a Power Class 2 UE transmitting at the maximum power level permitted in 3GPP TS 25.102 [12].

### 4.2.2.5 Uplink Sensitivity

The simulator shall be able to receive uplink transmissions from the UE when it is transmitting at the minimum power level defined in 3GPP TS 25.101 [11] for FDD mode, and 3GPP TS 25.102 [12] for TDD mode.

Editor's note: this is obviously a useful feature for the system simulator; however it is <ffs> if it should be an essential common requirement for a protocol test system.

## 4.2.3 Timers Tolerances

All the timers used during testing are within a tolerance margin given by the equation below. If for a specific test a different tolerance value is required then this should be specified in the relevant test document (i.e. the document where the test is described).

Timer tolerance = 10%, or  $2 \times TTI + t_{\text{delta}}$ , whichever value is the greater.

Where  $t_{\text{delta}}$  is 55 ms.

## 5 Reference test conditions

### 5.1 Test frequencies

The test frequencies are based the UMTS frequency bands defined in the core specifications.

To avoid interference with adjacent frequency bands the lowest test frequency (downlink and uplink) needs to be offset upwardly by at least 2.6 MHz since the channel's width is 5 MHz for FDD and 3.84 Mcps TDD option, and 0.8 MHz for 1.28 Mcps TDD option since the channel's width is 1.6 MHz. The raster spacing is 200KHz. Similarly the highest test frequency (downlink and uplink) needs to be offset downwardly by at least 2.6 MHz for FDD and 3.84 Mcps TDD option, and 0.8 MHz for 1.28 Mcps TDD option.

NOTE1: Additional regulations concerning interferences to frequency bands used by different systems may also exist. Those regulations are specific to the country where the test equipment is used and need to be taken into account if they require a higher offset than 2.6 MHz from the edge frequencies for FDD and 3.84 Mcps TDD option, and 0.8 MHz for 1.28 Mcps TDD option.

NOTE2: In Band VI, to avoid interference with adjacent frequency bands the lowest test frequency (downlink and uplink) needs to be offset upwardly by at least 2.5 MHz, highest test frequency (downlink and uplink) needs to be offset downwardly by at least 2.5 MHz from the edge frequencies since additional centre frequencies are specified according to 3GPP TS 25.101 [11].

#### 5.1.1 FDD Mode Test frequencies

UTRA/FDD is designed to operate in one or more paired bands specified in 3GPP TS 25.101 [11]. The reference test frequencies for the common test environment for each operating bands are defined in the following tables.

In DC-HSDPA mode UE receives two cells simultaneously, the serving HS-DSCH cell and the secondary serving HS-DSCH cell. The spacing of carrier frequencies of the two cells is 5 MHz.

In DC-HSUPA mode UE transmits two cells simultaneously, the Primary uplink frequency and the Secondary uplink frequency. The spacing of carrier frequencies of the two cells is 5 MHz.

In DB-DC-HSDPA mode UE receives two cells simultaneously, the serving HS-DSCH cell and the secondary serving HS-DSCH cell. The serving and secondary serving cell are on different operating bands and therefore utilize the same reference test frequencies per operating band as in single cell operation. The same test frequency ID (Low, Mid or High) is configured on both bands. The serving cell is placed on the lowest band number and the secondary serving cell is placed on the highest band number in the band combination defined in table 5.0aA of 3GPP TS 25.101 [11].

In 4C-HSDPA mode UE receives up to four cells simultaneously, the serving HS-DSCH cell and the secondary serving HS-DSCH cells. The serving cell and the secondary serving cells configuration for single band and dual band are defined in tables 5.0aB and 5.0aC of 3GPP TS 25.101 [11] respectively. The spacing of the adjacent carrier frequencies in downlink and uplink shall be 5 MHz and Mid frequency shall be used on both the bands wherever applicable. The downlink test frequencies for the different 4C-HSDPA band combinations are specified under each associated band (A and B).

NOTE: Example 4C-HSDPA band combination II-2-IV-2: The test frequencies for the Serving Cell and one of the Secondary Serving Cells are specified in subclause 5.1.1.2 for band II (Band A); and the other two Secondary Serving Cells are specified in subclause 5.1.1.4 for band IV (Band B).

In Multiflow HSDPA mode, UE receives up to four cells simultaneously, the serving HS-DSCH cell, assisting serving HS-DSCH Cell, the secondary serving HS-DSCH cell and assisting secondary serving HS-DSCH Cell. The serving cell and the secondary serving cells configuration for single band and dual band are defined in tables 5.0aB and 5.0aC of 3GPP TS 25.101 [11] respectively. The spacing of the adjacent carrier frequencies in downlink and uplink shall be 5

MHz and Mid frequency shall be used on both the bands wherever applicable. The downlink test frequencies for the different Multiflow HSDPA band combinations are specified under each associated band (A and B).

For the requirements for UEs supporting HS-DSCH categories 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 35, 36, 37 or 38, when the carriers are located in the same frequency band or the carriers belong to the same cell group in Multiflow mode, the spacing of the carrier frequencies of the two cells shall be 5 MHz.

For Multiflow HSDPA requirements in subclause 9.2.5, the serving HS-DSCH cell and the assisting serving HS-DSCH cell shall have the same carrier frequency, and the secondary serving HS-DSCH cell and the assisting secondary serving HS-DSCH cell shall have the same carrier frequency.

For Multiflow performance with a UE supporting one of the categories 21, 22, 23, 24, 25, 26, 27 or 28, the simplified testing method in Annex C.5.4A can be applied.

### 5.1.1.1 FDD reference test frequencies for Operating Band I

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 9613   | 1922.6 MHz          | 10563  | 2112.6 MHz            |
| Mid Range         | 9750   | 1950.0 MHz          | 10700  | 2140.0 MHz            |
| High Range        | 9887   | 1977.4 MHz          | 10837  | 2167.4 MHz            |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 9613   | 1922.6 MHz          | 10563  | 2112.6 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 10588  | 2117.6 MHz            |
| Mid Range         | Serving Cell           | 9750   | 1950.0 MHz          | 10700  | 2140.0 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 10725  | 2145.0 MHz            |
| High Range        | Serving Cell           | 9887   | 1977.4 MHz          | 10837  | 2167.4 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 10812  | 2162.4 MHz            |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 9613   | 1922.6 MHz          | 10563  | 2112.6 MHz            |
|                   | Secondary Serving Cell | 9638   | 1927.6 MHz          | 10588  | 2117.6 MHz            |
| Mid Range         | Serving Cell           | 9750   | 1950.0 MHz          | 10700  | 2140.0 MHz            |
|                   | Secondary Serving Cell | 9775   | 1955.0 MHz          | 10725  | 2145.0 MHz            |
| High Range        | Serving Cell           | 9887   | 1977.4 MHz          | 10837  | 2167.4 MHz            |
|                   | Secondary Serving Cell | 9862   | 1972.4 MHz          | 10812  | 2162.4 MHz            |

For 3C/4C DC-HSDPA mode:

Applicable 3C/4C configurations: I-1-V-2, I-2-VIII-1, I-2-VIII-2, I-1-VIII-2, I-2-V-1, I-2-V-2, I-3, I-3-VIII-1, I-1-XXXII-2 and I-2-XXXII-1 with up to 2 uplink carriers.

NOTE See subclauses 5.1.1.5, 5.1.1.8 and 5.1.1.32 for test frequencies for the associated carriers on bands V, VIII and XXXII.

| Test Frequency ID | HS-DSCH Cell           | Applicable I-x configuration | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|------------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | I-1, I-2, I-3                | 9613   | 1922.6 MHz          | 10563  | 2112.6 MHz            |
|                   | Secondary Serving Cell | I-2, I-3                     | 9638   | 1927.6 MHz          | 10588  | 2117.6 MHz            |
|                   | Secondary Serving Cell | I-3                          | -      | -                   | 10613  | 2122.6 MHz            |
| Mid Range         | Serving Cell           | I-1, I-2, I-3                | 9750   | 1950.0 MHz          | 10700  | 2140.0 MHz            |
|                   | Secondary Serving Cell | I-2, I-3                     | 9775   | 1955.0 MHz          | 10725  | 2145.0 MHz            |
|                   | Secondary Serving Cell | I-3                          | -      | -                   | 10750  | 2150.0 MHz            |
| High Range        | Serving Cell           | I-1, I-2, I-3                | 9887   | 1977.4 MHz          | 10837  | 2167.4 MHz            |

|  |                        |          |      |            |       |            |
|--|------------------------|----------|------|------------|-------|------------|
|  | Secondary Serving Cell | I-2, I-3 | 9862 | 1972.4 MHz | 10812 | 2162.4 MHz |
|  | Secondary Serving Cell | I-3      | -    | -          | 10787 | 2157.4 MHz |

### 5.1.1.2 FDD reference test frequencies for Operating Band II

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 9263   | 1852.6 MHz          | 9663   | 1932.6 MHz            |
| Mid Range         | 9400   | 1880.0 MHz          | 9800   | 1960.0 MHz            |
| High Range        | 9537   | 1907.4 MHz          | 9937   | 1987.4 MHz            |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 9263   | 1852.6 MHz          | 9663   | 1932.6 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 9688   | 1937.6 MHz            |
| Mid Range         | Serving Cell           | 9400   | 1880.0 MHz          | 9800   | 1960.0 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 9825   | 1965.0 MHz            |
| High Range        | Serving Cell           | 9537   | 1907.4 MHz          | 9937   | 1987.4 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 9912   | 1982.4 MHz            |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 9263   | 1852.6 MHz          | 9663   | 1932.6 MHz            |
|                   | Secondary Serving Cell | 9288   | 1857.6 Mhz          | 9688   | 1937.6 MHz            |
| Mid Range         | Serving Cell           | 9400   | 1880.0 MHz          | 9800   | 1960.0 MHz            |
|                   | Secondary Serving Cell | 9425   | 1885.0 Mhz          | 9825   | 1965.0 MHz            |
| High Range        | Serving Cell           | 9537   | 1907.4 MHz          | 9937   | 1987.4 MHz            |
|                   | Secondary Serving Cell | 9512   | 1902.4 Mhz          | 9912   | 1982.4 MHz            |

For 3C/4C DC-HSDPA mode:

Applicable 3C/4C configurations: II-1-V-2, II-1-IV-2, II-2-IV-1 and II-2-IV-2 with up to 2 uplink carriers.

NOTE See subclause 5.1.1.4 for test frequencies for the associated carriers on band IV.

| Test Frequency ID | HS-DSCH Cell           | Applicable II-x configuration | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|-------------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | II-1, II-2                    | 9263   | 1852.6 MHz          | 9663   | 1932.6 MHz            |
|                   | Secondary Serving Cell | II-2                          | 9288   | 1857.6 Mhz          | 9688   | 1937.6 MHz            |
| Mid Range         | Serving Cell           | II-1, II-2                    | 9400   | 1880.0 MHz          | 9800   | 1960.0 MHz            |
|                   | Secondary Serving Cell | II-2                          | 9425   | 1885.0 Mhz          | 9825   | 1965.0 MHz            |
| High Range        | Serving Cell           | II-1, II-2                    | 9537   | 1907.4 MHz          | 9937   | 1987.4 MHz            |
|                   | Secondary Serving Cell | II-2                          | 9512   | 1902.4 Mhz          | 9912   | 1982.4 MHz            |

### 5.1.1.3 FDD reference test frequencies for Operating Band III

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 938    | 1712.6 MHz          | 1163   | 1807.6 MHz            |
| Mid Range         | 1112   | 1747.4 MHz          | 1337   | 1842.4 MHz            |
| High Range        | 1287   | 1782.4 MHz          | 1512   | 1877.4 MHz            |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 938    | 1712.6 MHz          | 1163   | 1807.6 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 1188   | 1812.6 MHz            |
| Mid Range         | Serving Cell           | 1112   | 1747.4 MHz          | 1337   | 1842.4 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 1362   | 1847.4 MHz            |
| High Range        | Serving Cell           | 1287   | 1782.4 MHz          | 1512   | 1877.4 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 1487   | 1872.4 MHz            |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 938    | 1712.6 MHz          | 1163   | 1807.6 MHz            |
|                   | Secondary Serving Cell | 963    | 1717.6 MHz          | 1188   | 1812.6 MHz            |
| Mid Range         | Serving Cell           | 1112   | 1747.4 MHz          | 1337   | 1842.4 MHz            |
|                   | Secondary Serving Cell | 1137   | 1752.4 MHz          | 1362   | 1847.4 MHz            |
| High Range        | Serving Cell           | 1287   | 1782.4 MHz          | 1512   | 1877.4 MHz            |
|                   | Secondary Serving Cell | 1262   | 1777.4 MHz          | 1487   | 1872.4 MHz            |

#### 5.1.1.4 FDD reference test frequencies for Operating Band IV

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 1313   | 1712.6 MHz          | 1538   | 2112.6 MHz            |
| Mid Range         | 1450   | 1740.0 MHz          | 1675   | 2140.0 MHz            |
| High Range        | 1512   | 1752.4 MHz          | 1737   | 2152.4 MHz            |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 1313   | 1712.6 MHz          | 1538   | 2112.6 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 1563   | 2117.6 MHz            |
| Mid Range         | Serving Cell           | 1450   | 1740.0 MHz          | 1675   | 2140.0 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 1700   | 2145.0 MHz            |
| High Range        | Serving Cell           | 1512   | 1752.4 MHz          | 1737   | 2152.4 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 1712   | 2147.4 MHz            |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 1313   | 1712.6 MHz          | 1538   | 2112.6 MHz            |
|                   | Secondary Serving Cell | 1338   | 1717.6 MHz          | 1563   | 2117.6 MHz            |
| Mid Range         | Serving Cell           | 1450   | 1740.0 MHz          | 1675   | 2140.0 MHz            |
|                   | Secondary Serving Cell | 1475   | 1745.0 MHz          | 1700   | 2145.0 MHz            |
| High Range        | Serving Cell           | 1512   | 1752.4 MHz          | 1737   | 2152.4 MHz            |
|                   | Secondary Serving Cell | 1487   | 1747.4 MHz          | 1712   | 2147.4 MHz            |

For 3C/4C DC-HSDPA mode:

Applicable 3C/4C configurations: II-1-IV-2, II-2-IV-1 and II-2-IV-2 with up to 2 uplink carriers.

NOTE See subclause 5.1.1.2 for test frequencies for the associated carriers on band II.

| Test Frequency ID | HS-DSCH Cell           | Applicable IV-x configuration | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|-------------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Secondary Serving Cell | IV-1, IV-2                    | -      | -                   | 1538   | 2112.6 MHz            |
|                   | Secondary Serving Cell | IV-2                          | -      | -                   | 1563   | 2117.6 MHz            |
| Mid Range         | Secondary Serving Cell | IV-1, IV-2                    | -      | -                   | 1675   | 2140.0 MHz            |
|                   | Secondary Serving Cell | IV-2                          | -      | -                   | 1700   | 2145.0 MHz            |
| High Range        | Secondary Serving Cell | IV-1, IV-2                    | -      | -                   | 1737   | 2152.4 MHz            |
|                   | Secondary Serving Cell | IV-2                          | -      | -                   | 1712   | 2147.4 MHz            |

#### 5.1.1.5 FDD reference test frequencies for Operating Band V

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 4133   | 826.6 MHz           | 4358   | 871.6 MHz             |
| Mid Range         | 4175   | 835.0 MHz           | 4400   | 880.0 MHz             |
| High Range        | 4232   | 846.4 MHz           | 4457   | 891.4 MHz             |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 4133   | 826.6 MHz           | 4358   | 871.6 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 4383   | 876.6 MHz             |
| Mid Range         | Serving Cell           | 4175   | 835.0 MHz           | 4400   | 880.0 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 4425   | 885.0 MHz             |
| High Range        | Serving Cell           | 4232   | 846.4 MHz           | 4457   | 891.4 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 4432   | 886.4 MHz             |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 4133   | 826.6 MHz           | 4358   | 871.6 MHz             |
|                   | Secondary Serving Cell | 4158   | 831.6 MHz           | 4383   | 876.6 MHz             |
| Mid Range         | Serving Cell           | 4175   | 835.0 MHz           | 4400   | 880.0 MHz             |
|                   | Secondary Serving Cell | 4200   | 840.0 MHz           | 4425   | 885.0 MHz             |
| High Range        | Serving Cell           | 4232   | 846.4 MHz           | 4457   | 891.4 MHz             |
|                   | Secondary Serving Cell | 4207   | 841.4 MHz           | 4432   | 886.4 MHz             |

For 3C/4C DC-HSDPA mode:

Applicable 3C/4C configurations: I-1-V-2, I-2-V-1 and I-2-V-2 with up to 2 uplink carriers.

NOTE See subclause 5.1.1.1 for test frequencies for the associated carriers on band I.

| Test Frequency ID | HS-DSCH Cell           | Applicable V-x configuration | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|------------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Secondary Serving Cell | V-1, V-2                     | -      | -                   | 4358   | 871.6 MHz             |
|                   | Secondary Serving Cell | V-2                          | -      | -                   | 4383   | 876.6 MHz             |
| Mid Range         | Secondary Serving Cell | V-1, V-2                     | -      | -                   | 4400   | 880.0 MHz             |
|                   | Secondary Serving Cell | V-2                          | -      | -                   | 4425   | 885.0 MHz             |
| High Range        | Secondary Serving Cell | V-1, V-2                     | -      | -                   | 4457   | 891.4 MHz             |
|                   | Secondary Serving Cell | V-2                          | -      | -                   | 4432   | 886.4 MHz             |

#### 5.1.1.6 FDD reference test frequencies for Operating Band VI

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
|-------------------|--------|---------------------|--------|-----------------------|

|            |      |           |      |           |
|------------|------|-----------|------|-----------|
| Low Range  | 812  | 832.5 MHz | 1037 | 877.5 MHz |
| Mid Range  | 4175 | 835.0 MHz | 4400 | 880.0 MHz |
| High Range | 837  | 837.5 MHz | 1062 | 882.5 MHz |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |
| Mid Range         | Serving Cell           | 812    | 832.5 MHz           | 1037   | 877.5 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 1062   | 882.5 MHz             |
| High Range        | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |
| Mid Range         | Serving Cell           | 812    | 832.5 MHz           | 1037   | 877.5 MHz             |
|                   | Secondary Serving Cell | 837    | 837.5 MHz           | 1062   | 882.5 MHz             |
| High Range        | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |

NOTE 1: For Band VI testing, the Mobile Country Code shall be set to (MCC = '442/443').

NOTE 2: In DC-HSDPA mode and in DC-HSUPA mode only Mid Range frequencies are specified since the available downlink bandwidth is only 10 MHz at Band VI and hence the specified Mid Range frequencies already cover the whole available downlink bandwidth.

#### 5.1.1.7 FDD reference test frequencies for Operating Band VII

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 2013   | 2502.6 MHz          | 2238   | 2622.6 MHz            |
| Mid Range         | 2175   | 2535.0 MHz          | 2400   | 2655.0 MHz            |
| High Range        | 2337   | 2567.4 MHz          | 2562   | 2687.4 MHz            |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 2013   | 2502.6 MHz          | 2238   | 2622.6 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 2263   | 2627.6 MHz            |
| Mid Range         | Serving Cell           | 2175   | 2535.0 MHz          | 2400   | 2655.0 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 2425   | 2660.0 MHz            |
| High Range        | Serving Cell           | 2337   | 2567.4 MHz          | 2562   | 2687.4 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 2537   | 2682.4 MHz            |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 2013   | 2502.6 MHz          | 2238   | 2622.6 MHz            |
|                   | Secondary Serving Cell | 2038   | 2507.6 MHz          | 2263   | 2627.6 MHz            |
| Mid Range         | Serving Cell           | 2175   | 2535.0 MHz          | 2400   | 2655.0 MHz            |



|            |                        |      |            |      |            |
|------------|------------------------|------|------------|------|------------|
|            | Secondary Serving Cell | 2200 | 2540.0 MHz | 2425 | 2660.0 MHz |
| High Range | Serving Cell           | 2337 | 2567.4 MHz | 2562 | 2687.4 MHz |
|            | Secondary Serving Cell | 2312 | 2562.4 MHz | 2537 | 2682.4 MHz |

### 5.1.1.8 FDD reference test frequencies for Operating Band VIII

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 2713   | 882.6 MHz           | 2938   | 927.6 MHz             |
| Mid Range         | 2788   | 897.6 MHz           | 3013   | 942.6 MHz             |
| High Range        | 2862   | 912.4 MHz           | 3087   | 957.4 MHz             |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 2713   | 882.6 MHz           | 2938   | 927.6 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 2963   | 932.6 MHz             |
| Mid Range         | Serving Cell           | 2788   | 897.6 MHz           | 3013   | 942.6 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 3038   | 947.6 MHz             |
| High Range        | Serving Cell           | 2862   | 912.4 MHz           | 3087   | 957.4 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 3062   | 952.4 MHz             |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 2713   | 882.6 MHz           | 2938   | 927.6 MHz             |
|                   | Secondary Serving Cell | 2738   | 887.6 MHz           | 2963   | 932.6 MHz             |
| Mid Range         | Serving Cell           | 2788   | 897.6 MHz           | 3013   | 942.6 MHz             |
|                   | Secondary Serving Cell | 2813   | 902.6 MHz           | 3038   | 947.6 MHz             |
| High Range        | Serving Cell           | 2862   | 912.4 MHz           | 3087   | 957.4 MHz             |
|                   | Secondary Serving Cell | 2837   | 907.4 MHz           | 3062   | 952.4 MHz             |

For 3C/4C DC-HSDPA mode:

Applicable 3C/4C configurations: I-2-VIII-1 and I-3-VIII-1 with up to 1 uplink carrier.

NOTE See subclause 5.1.1.1 for test frequencies for the associated carriers on band I.

| Test Frequency ID | HS-DSCH Cell           | Applicable VIII-x configuration | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|---------------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Secondary Serving Cell | VIII-1                          | -      | -                   | 2938   | 927.6 MHz             |
| Mid Range         | Secondary Serving Cell | VIII-1                          | -      | -                   | 3013   | 942.6 MHz             |
| High Range        | Secondary Serving Cell | VIII-1                          | -      | -                   | 3087   | 957.4 MHz             |

### 5.1.1.9 FDD reference test frequencies for Operating Band IX

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 8 762  | 1752.4 MHz          | 9 237  | 1847.4 MHz            |
| Mid Range         | 8 837  | 1767.4 MHz          | 9 312  | 1862.4 MHz            |
| High Range        | 8 912  | 1782.4 MHz          | 9 387  | 1877.4 MHz            |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------------|--------|---------------------|--------|-----------------------|
|-------------------|--------------|--------|---------------------|--------|-----------------------|

|            |                        |       |            |      |            |
|------------|------------------------|-------|------------|------|------------|
| Low Range  | Serving Cell           | 8762  | 1752.4 MHz | 9237 | 1847.4 MHz |
|            | Secondary Serving Cell | -     | -          | 9262 | 1852.4 MHz |
| Mid Range  | Serving Cell           | 8837  | 1767.4MHz  | 9312 | 1862.4 MHz |
|            | Secondary Serving Cell | -     | -          | 9337 | 1867.4 MHz |
| High Range | Serving Cell           | 8 912 | 1782.4 MHz | 9387 | 1877.4 MHz |
|            | Secondary Serving Cell | -     | -          | 9362 | 1872.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 8762   | 1752.4 MHz          | 9237   | 1847.4 MHz            |
|                   | Secondary Serving Cell | 8787   | 1757.4 MHz          | 9262   | 1852.4 MHz            |
| Mid Range         | Serving Cell           | 8837   | 1767.4MHz           | 9312   | 1862.4 MHz            |
|                   | Secondary Serving Cell | 8862   | 1772.4MHz           | 9337   | 1867.4 MHz            |
| High Range        | Serving Cell           | 8912   | 1782.4 MHz          | 9387   | 1877.4 MHz            |
|                   | Secondary Serving Cell | 8887   | 1777.4 MHz          | 9362   | 1872.4 MHz            |

NOTE 1: For Band IX testing, the Mobile Country Code shall be set to (MCC = '442/443').

#### 5.1.1.10 FDD reference test frequencies for Operating Band X

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 2888   | 1712.6 MHz          | 3113   | 2112.6 MHz            |
| Mid Range         | 3025   | 1740.0 MHz          | 3250   | 2140.0 MHz            |
| High Range        | 3162   | 1767.4 MHz          | 3387   | 2167.4 MHz            |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 2888   | 1712.6 MHz          | 3113   | 2112.6 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 3138   | 2117.6 MHz            |
| Mid Range         | Serving Cell           | 3025   | 1740.0 MHz          | 3250   | 2140.0 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 3275   | 2145.0 MHz            |
| High Range        | Serving Cell           | 3162   | 1767.4 MHz          | 3387   | 2167.4 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 3362   | 2162.4 MHz            |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 2888   | 1712.6 MHz          | 3113   | 2112.6 MHz            |
|                   | Secondary Serving Cell | 2913   | 1717.6 MHz          | 3138   | 2117.6 MHz            |
| Mid Range         | Serving Cell           | 3025   | 1740.0 MHz          | 3250   | 2140.0 MHz            |
|                   | Secondary Serving Cell | 3050   | 1745.0 MHz          | 3275   | 2145.0 MHz            |
| High Range        | Serving Cell           | 3162   | 1767.4 MHz          | 3387   | 2167.4 MHz            |
|                   | Secondary Serving Cell | 3137   | 1762.4 MHz          | 3362   | 2162.4 MHz            |

#### 5.1.1.11 FDD reference test frequencies for Operating Band XI

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 3487   | 1430.4 MHz          | 3712   | 1478.4 MHz            |
| Mid Range         | 3525   | 1438.0 MHz          | 3750   | 1486.0MHz             |
| High Range        | 3562   | 1445.4 MHz          | 3787   | 1493.4MHz             |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 3487   | 1430.4 MHz          | 3712   | 1478.4 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 3737   | 1483.4 MHz            |
| Mid Range         | Serving Cell           | 3525   | 1438.0 MHz          | 3750   | 1486.0 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 3775   | 1491.0 MHz            |
| High Range        | Serving Cell           | 3562   | 1445.4 MHz          | 3787   | 1493.4 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 3762   | 1488.4 MHz            |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 3487   | 1430.4 MHz          | 3712   | 1478.4 MHz            |
|                   | Secondary Serving Cell | 3512   | 1435.4 MHz          | 3737   | 1483.4 MHz            |
| Mid Range         | Serving Cell           | 3525   | 1438.0 MHz          | 3750   | 1486.0 MHz            |
|                   | Secondary Serving Cell | 3550   | 1443.0 MHz          | 3775   | 1491.0 MHz            |
| High Range        | Serving Cell           | 3562   | 1445.4 MHz          | 3787   | 1493.4 MHz            |
|                   | Secondary Serving Cell | 3537   | 1440.4 MHz          | 3762   | 1488.4 MHz            |

#### 5.1.1.12 FDD reference test frequencies for Operating Band XII

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 3618   | 701.6 MHz           | 3843   | 731.6 MHz             |
| Mid Range         | 3645   | 707.0 MHz           | 3870   | 737.0 MHz             |
| High Range        | 3677   | 713.4 MHz           | 3902   | 743.4 MHz             |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 3618   | 701.6 MHz           | 3843   | 731.6 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 3868   | 736.6 MHz             |
| Mid Range         | Serving Cell           | 3652   | 708.4 MHz           | 3877   | 738.4 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 3902   | 743.4 MHz             |
| High Range        | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 3618   | 701.6 MHz           | 3843   | 731.6 MHz             |
|                   | Secondary Serving Cell | 3643   | 706.6 MHz           | 3868   | 736.6 MHz             |
| Mid Range         | Serving Cell           | 3652   | 708.4 MHz           | 3877   | 738.4 MHz             |
|                   | Secondary Serving Cell | 3677   | 713.4 MHz           | 3902   | 743.4 MHz             |
| High Range        | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |

NOTE: In DC-HSDPA mode and in DC-HSUPA mode only Low Range and Mid Range frequencies are specified since the available downlink bandwidth is only 18 MHz at Band XII and hence the specified Low Range and Mid Range frequencies already cover the whole available downlink bandwidth.

## 5.1.1.13 FDD reference test frequencies for Operating Band XIII

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 3793   | 779.6 MHz           | 4018   | 748.6 MHz             |
| Mid Range         | 3805   | 782.0 MHz           | 4030   | 751.0 MHz             |
| High Range        | 3817   | 784.4 MHz           | 4042   | 753.4 MHz             |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |
| Mid Range         | Serving Cell           | 3842   | 779.5 MHz           | 4067   | 748.5 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 4092   | 753.5 MHz             |
| High Range        | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |
| Mid Range         | Serving Cell           | 3842   | 779.5 MHz           | 4067   | 748.5 MHz             |
|                   | Secondary Serving Cell | 3867   | 784.5 MHz           | 4092   | 753.5 MHz             |
| High Range        | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |

NOTE: In DC-HSDPA mode and in DC-HSUPA mode only Mid Range frequencies are specified since the available downlink bandwidth is only 10 MHz at Band XIII and hence the specified Mid Range frequencies already cover the whole available downlink bandwidth.

## 5.1.1.14 FDD reference test frequencies for Operating Band XIV

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 3893   | 790.6 MHz           | 4118   | 760.6 MHz             |
| Mid Range         | 3905   | 793.0 MHz           | 4130   | 763.0 MHz             |
| High Range        | 3917   | 795.4 MHz           | 4142   | 765.4 MHz             |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |
| Mid Range         | Serving Cell           | 3942   | 790.5 MHz           | 4167   | 760.5 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 4192   | 765.5 MHz             |
| High Range        | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell | -      | -                   | -      | -                     |

|            |                        |      |           |      |           |
|------------|------------------------|------|-----------|------|-----------|
|            | Secondary Serving Cell | -    | -         | -    | -         |
| Mid Range  | Serving Cell           | 3942 | 790.5 MHz | 4167 | 760.5 MHz |
|            | Secondary Serving Cell | 3967 | 795.5 MHz | 4192 | 765.5 MHz |
| High Range | Serving Cell           | -    | -         | -    | -         |
|            | Secondary Serving Cell | -    | -         | -    | -         |

NOTE: In DC-HSDPA mode and in DC-HSUPA mode only Mid Range frequencies are specified since the available downlink bandwidth is only 10 MHz at Band XIV and hence the specified Mid Range frequencies already cover the whole available downlink bandwidth.

#### 5.1.1.15 FDD reference test frequencies for Operating Band XV

FFS

#### 5.1.1.16 FDD reference test frequencies for Operating Band XVI

FFS

#### 5.1.1.17 FDD reference test frequencies for Operating Band XVII

FFS

#### 5.1.1.18 FDD reference test frequencies for Operating Band XVIII

FFS

#### 5.1.1.19 FDD reference test frequencies for Operating Band XIX

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 387    | 832.5 MHz           | 787    | 877.5 MHz             |
| Mid Range         | 412    | 837.5 MHz           | 812    | 882.5 MHz             |
| High Range        | 437    | 842.5 MHz           | 837    | 887.5 MHz             |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 387    | 832.5 MHz           | 787    | 877.5 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 812    | 882.5 MHz             |
| Mid Range         | Serving Cell           | 412    | 837.5 MHz           | 812    | 882.5 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 837    | 887.5 MHz             |
| High Range        | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 387    | 832.5 MHz           | 787    | 877.5 MHz             |
|                   | Secondary Serving Cell | 412    | 837.5 MHz           | 812    | 882.5 MHz             |
| Mid Range         | Serving Cell           | 412    | 837.5 MHz           | 812    | 882.5 MHz             |
|                   | Secondary Serving Cell | 437    | 842.5 MHz           | 837    | 887.5 MHz             |
| High Range        | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |

NOTE: In DC-HSDPA mode and in DC-HSUPA mode only Low Range and Mid Range frequencies are specified since the available downlink bandwidth is only 15 MHz at Band XIX and hence the specified Low Range and Mid Range frequencies already cover the whole available downlink bandwidth.

## 5.1.1.20 FDD reference test frequencies for Operating Band XX

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 4288   | 834.6 MHz           | 4513   | 793.6 MHz             |
| Mid Range         | 4350   | 847.0 MHz           | 4575   | 806.0 MHz             |
| High Range        | 4412   | 859.4 MHz           | 4637   | 818.4 MHz             |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 4288   | 834.6 MHz           | 4513   | 793.6 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 4538   | 798.6 MHz             |
| Mid Range         | Serving Cell           | 4338   | 844,6 MHz           | 4563   | 803.6 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 4588   | 808.6 MHz             |
| High Range        | Serving Cell           | 4412   | 859.4 MHz           | 4637   | 818.4 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 4612   | 813.4 MHz             |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 4288   | 834.6 MHz           | 4513   | 793.6 MHz             |
|                   | Secondary Serving Cell | 4313   | 839.6 MHz           | 4538   | 798.6 MHz             |
| Mid Range         | Serving Cell           | 4338   | 844,6 MHz           | 4563   | 803.6 MHz             |
|                   | Secondary Serving Cell | 4363   | 849,6 MHz           | 4588   | 808.6 MHz             |
| High Range        | Serving Cell           | 4412   | 859.4 MHz           | 4637   | 818.4 MHz             |
|                   | Secondary Serving Cell | 4387   | 854.4 MHz           | 4612   | 813.4 MHz             |

## 5.1.1.21 FDD reference test frequencies for Operating Band XXI

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 462    | 1450.4 MHz          | 862    | 1498.4 MHz            |
| Mid Range         | 487    | 1455.4 MHz          | 887    | 1503.4 MHz            |
| High Range        | 512    | 1460.4 MHz          | 912    | 1508.4 MHz            |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 462    | 1450.4 MHz          | 862    | 1498.4 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 887    | 1503.4 MHz            |
| Mid Range         | Serving Cell           | 487    | 1455.4 MHz          | 887    | 1503.4 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 912    | 1508.4 MHz            |
| High Range        | Serving Cell           | -      | -                   | -      | -                     |
|                   | Secondary Serving Cell | -      | -                   | -      | -                     |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 462    | 1450.4 MHz          | 862    | 1498.4 MHz            |
|                   | Secondary Serving Cell | 487    | 1455.4 MHz          | 887    | 1503.4 MHz            |
| Mid Range         | Serving Cell           | 487    | 1455.4 MHz          | 887    | 1503.4 MHz            |
|                   | Secondary Serving Cell | 512    | 1460.4 MHz          | 912    | 1508.4 MHz            |
| High Range        | Serving Cell           | -      | -                   | -      | -                     |

|  |                        |   |   |   |   |
|--|------------------------|---|---|---|---|
|  | Secondary Serving Cell | - | - | - | - |
|--|------------------------|---|---|---|---|

NOTE: In DC-HSDPA mode and in DC-HSUPA mode only Low Range and Mid Range frequencies are specified since the available downlink bandwidth is only 15 MHz at Band XXI and hence the specified Low Range and Mid Range frequencies already cover the whole available downlink bandwidth.

#### 5.1.1.22 FDD reference test frequencies for Operating Band XXII

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 4438   | 3412.6 MHz          | 4663   | 3512.6 MHz            |
| Mid Range         | 4625   | 3450.0 MHz          | 4850   | 3550.0 MHz            |
| High Range        | 4812   | 3487.4 MHz          | 5037   | 3587.4 MHz            |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 4438   | 3412.6 MHz          | 4663   | 3512.6 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 4688   | 3517.6 MHz            |
| Mid Range         | Serving Cell           | 4625   | 3450.0 MHz          | 4850   | 3550.0 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 4875   | 3555.0 MHz            |
| High Range        | Serving Cell           | 4812   | 3487.4 MHz          | 5037   | 3587.4 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 5012   | 3582.4 MHz            |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 4438   | 3412.6 MHz          | 4663   | 3512.6 MHz            |
|                   | Secondary Serving Cell | 4463   | 3417.6 MHz          | 4688   | 3517.6 MHz            |
| Mid Range         | Serving Cell           | 4625   | 3450.0 MHz          | 4850   | 3550.0 MHz            |
|                   | Secondary Serving Cell | 4650   | 3455.0 MHz          | 4875   | 3555.0 MHz            |
| High Range        | Serving Cell           | 4812   | 3487.4 MHz          | 5037   | 3587.4 MHz            |
|                   | Secondary Serving Cell | 4787   | 3482.4 MHz          | 5012   | 3582.4 MHz            |

#### 5.1.1.23 FDD reference test frequencies for Operating Band XXIII

FFS

#### 5.1.1.24 FDD reference test frequencies for Operating Band XXIV

FFS

#### 5.1.1.25 FDD reference test frequencies for Operating Band XXV

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 4888   | 1852.6 MHz          | 5113   | 1932.6 MHz            |
| Mid Range         | 5037   | 1882.4 MHz          | 5262   | 1962.4 MHz            |
| High Range        | 5187   | 1912.4 MHz          | 5412   | 1992.4 MHz            |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 4888   | 1852.6 MHz          | 5113   | 1932.6 MHz            |
|                   | Secondary Serving Cell | -      | -                   | 5138   | 1937.6 MHz            |
| Mid Range         | Serving Cell           | 5037   | 1882.4 MHz          | 5262   | 1962.4 MHz            |

|            |                        |      |            |      |            |
|------------|------------------------|------|------------|------|------------|
|            | Secondary Serving Cell | -    | -          | 5287 | 1967.4 MHz |
| High Range | Serving Cell           | 5187 | 1912.4 MHz | 5412 | 1992.4 MHz |
|            | Secondary Serving Cell | -    | -          | 5387 | 1987.4 MHz |

For DC-HSUPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 4888   | 1852.6              | 5113   | 1932.6                |
|                   | Secondary Serving Cell | 4913   | 1857,6              | 5138   | 1937.6                |
| Mid Range         | Serving Cell           | 5037   | 1882.4              | 5262   | 1962.4                |
|                   | Secondary Serving Cell | 5062   | 1887,4              | 5287   | 1967.4                |
| High Range        | Serving Cell           | 5187   | 1912.4              | 5412   | 1992.4                |
|                   | Secondary Serving Cell | 5162   | 1907,4              | 5387   | 1987.4                |

#### 5.1.1.26 FDD reference test frequencies for Operating Band XXVI

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 5538   | 816.6 MHz           | 5763   | 861.6 MHz             |
| Mid Range         | 5612   | 831.4 MHz           | 5837   | 876.4 MHz             |
| High Range        | 5687   | 846.4 MHz           | 5912   | 891.4 MHz             |

For DC-HSDPA mode:

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 5538   | 816.6 MHz           | 5763   | 861.6 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 5788   | 866.6 MHz             |
| Mid Range         | Serving Cell           | 5612   | 831.4 MHz           | 5837   | 876.4 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 5862   | 881.4 MHz             |
| High Range        | Serving Cell           | 5687   | 846.4 MHz           | 5912   | 891.4 MHz             |
|                   | Secondary Serving Cell | -      | -                   | 5887   | 886.4 MHz             |

For DC-HSUPA mode

| Test Frequency ID | HS-DSCH Cell           | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Serving Cell           | 5538   | 816.6 MHz           | 5763   | 861.6 MHz             |
|                   | Secondary Serving Cell | 5563   | 821.6 MHz           | 5788   | 866.6 MHz             |
| Mid Range         | Serving Cell           | 5612   | 831.4 MHz           | 5837   | 876.4 MHz             |
|                   | Secondary Serving Cell | 5637   | 836.4 MHz           | 5862   | 881.4 MHz             |
| High Range        | Serving Cell           | 5687   | 846.4 MHz           | 5912   | 891.4 MHz             |
|                   | Secondary Serving Cell | 5662   | 841.4 MHz           | 5887   | 886.4 MHz             |

#### 5.1.1.27 FDD reference test frequencies for Operating Band XXVII

FFS

#### 5.1.1.28 FDD reference test frequencies for Operating Band XXVIII

FFS

#### 5.1.1.29 FDD reference test frequencies for Operating Band XXIX

FFS



## 5.1.1.30 FDD reference test frequencies for Operating Band XXX

FFS

## 5.1.1.31 FDD reference test frequencies for Operating Band XXXI

FFS

## 5.1.1.32 FDD reference test frequencies for Operating Band XXXII

| Test Frequency ID                                                                                                                                                                                                                                         | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------|--------|-----------------------|
| Low Range                                                                                                                                                                                                                                                 | N/A    | N/A                 | 6618   | 1454.6 MHz            |
| Mid Range                                                                                                                                                                                                                                                 | N/A    | N/A                 | 6715   | 1474.0 MHz            |
| High Range                                                                                                                                                                                                                                                | N/A    | N/A                 | 6812   | 1493.4 MHz            |
| NOTE: Restricted to UTRA operation when dual band is configured (i.e. DB-DC-HSDPA or DB-DF-3C or DB-DF-4C). The downlink frequencies of this band are paired with the uplink frequencies of the other FDD band (external) of the dual band configuration. |        |                     |        |                       |

For 3C/4C DC-HSDPA mode:

Applicable 3C/4C configurations: I-1-XXXII-2 and I-2-XXXII-1 with 1 uplink carrier on band I.

NOTE: See subclause 5.1.1.1 for test frequencies for the associated carriers on band I.

| Test Frequency ID | HS-DSCH Cell           | Applicable XXXII-x configuration | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|------------------------|----------------------------------|--------|---------------------|--------|-----------------------|
| Low Range         | Secondary Serving Cell | XXXII-1, XXXII-2                 | -      | -                   | 6618   | 1454.6 MHz            |
|                   | Secondary Serving Cell | XXXII-2                          | -      | -                   | 6643   | 1459.6 MHz            |
| Mid Range         | Secondary Serving Cell | XXXII-1, XXXII-2                 | -      | -                   | 6715   | 1474.0 MHz            |
|                   | Secondary Serving Cell | XXXII-2                          | -      | -                   | 6740   | 1479.0 MHz            |
| High Range        | Secondary Serving Cell | XXXII-1, XXXII-2                 | -      | -                   | 6812   | 1493.4 MHz            |
|                   | Secondary Serving Cell | XXXII-2                          | -      | -                   | 6787   | 1488.4 MHz            |

## 5.1.2 TDD Mode Test frequencies

UTRA/TDD is designed to operate in one of three unpaired bands (3GPP TS 25.102 [12]). The reference test frequencies for the common test environment for each of the 3 operating bands are defined in the following tables:

## 5.1.2.1 Standard TDD reference test frequencies (3.84 Mcps option)

| Test Frequency ID | Band a |                       | Band b |                       | Band c |                       |
|-------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|
|                   | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) |
| Low Range         | 9 513  | 1 902.6 MHz           | 9 263  | 1 852.6 MHz           | 9 563  | 1 912.6 MHz           |
| Mid Range         | 9 550  | 1 910 MHz             | 9 400  | 1 880 MHz             | 9 600  | 1 920 MHz             |
| High Range        | 9 587  | 1 917.4 MHz           | 9 537  | 1 907.4 MHz           | 9 637  | 1 927.4 MHz           |
| Low Range         | 10 063 | 2 012.6 MHz           | 9 663  | 1 932.6 MHz           |        |                       |
| Mid Range         | 10 087 | 2 017.4 MHz           | 9 800  | 1 960 MHz             |        |                       |
| High Range        | 10 112 | 2 022.4 MHz           | 9 937  | 1 987.4 MHz           |        |                       |

## 5.1.2.2 Standard TDD reference test frequencies (1.28 Mcps option)

| Test Frequency ID | Band a |                       | Band b |                       | Band c |                       |
|-------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|
|                   | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) |
| Low Range         | 9504   | 1900.8 MHz            | 9254   | 1850.8 MHz            | 9554   | 1910.8 MHz            |

|            |       |            |      |            |      |            |
|------------|-------|------------|------|------------|------|------------|
| Mid Range  | 9550  | 1910 MHz   | 9400 | 1880 MHz   | 9600 | 1920 MHz   |
| High Range | 9596  | 1919.2 MHz | 9546 | 1909.2 MHz | 9646 | 1929.2 MHz |
| Low Range  | 10054 | 2010.8 MHz | 9654 | 1930.8 MHz |      |            |
| Mid Range  | 10087 | 2017.4 MHz | 9800 | 1960 MHz   |      |            |
| High Range | 10121 | 2024.2 MHz | 9946 | 1989.2 MHz |      |            |

| Test Frequency ID | Band d |                       | Band e |                       | Band f |                       |
|-------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|
|                   | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) |
| Low Range         | 12854  | 2570.8 MHz            | 11504  | 2300.8 MHz            | 9404   | 1880.8 MHz            |
| Mid Range         | 12950  | 2595 MHz              | 11750  | 2350 MHz              | 9500   | 1900 MHz              |
| High Range        | 13096  | 2619.2 MHz            | 11996  | 2399.2 MHz            | 9596   | 1919.2 MHz            |
| Low Range         |        |                       |        |                       |        |                       |
| Mid Range         |        |                       |        |                       |        |                       |
| High Range        |        |                       |        |                       |        |                       |

NOTE: In China, Band a only includes 2010 - 2025 MHz for 1.28 Mcps TDD option.

### 5.1.2.3 Standard TDD reference test frequencies (7.68 Mcps option)

| Test Frequency ID | Band a |                       | Band b |                       | Band c |                       |
|-------------------|--------|-----------------------|--------|-----------------------|--------|-----------------------|
|                   | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) | UARFCN | Frequency (UL and DL) |
| Low Range         | 9 513  | 1 905 MHz             | 9 275  | 1 855 MHz             | 9 575  | 1 915 MHz             |
| Mid Range         | 9 550  | 1 910 MHz             | 9 400  | 1 880 MHz             | 9 600  | 1 920 MHz             |
| High Range        | 9 575  | 1 915 MHz             | 9 525  | 1 905 MHz             | 9 625  | 1 925 MHz             |
| Low Range         | 10 075 | 2 015 MHz             | 9 675  | 1 935 MHz             |        |                       |
| Mid Range         | 10 087 | 2 017.4 MHz           | 9 800  | 1 960 MHz             |        |                       |
| High Range        | 10 100 | 2 020 MHz             | 9 925  | 1 985 MHz             |        |                       |

## 5.1.3 MFBI Test Frequencies

### 5.1.3.1 MFBI Test frequencies for operation Band II overlapping with Band XXV

- Same as per section 5.1.1.2

### 5.1.3.2 MFBI Test frequencies for operation Band III overlapping with Band IX

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 1137   | 1752.4 MHz          | 1362   | 1847.4 MHz            |
| Mid Range         | 1212   | 1767.4 MHz          | 1437   | 1862.4 MHz            |
| High Range        | 1287   | 1782.4 MHz          | 1512   | 1877.4 MHz            |

### 5.1.3.3 MFBI Test frequencies for operation Band IV overlapping with Band X

- Same as per section 5.1.1.4

### 5.1.3.4 MFBI Test frequencies for operation Band V overlapping with Band XVIII

- FFS

### 5.1.3.5 MFBI Test frequencies for operation Band V overlapping with Band XIX

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 4162   | 832.4 MHz           | 4387   | 877.4 MHz             |
| Mid Range         | 4187   | 837.4 MHz           | 4412   | 882.4 MHz             |
| High Range        | 4212   | 842.4 MHz           | 4437   | 887.4 MHz             |

### 5.1.3.6 MFBI Test frequencies for operation Band V overlapping with Band XXVI

- Same as per section 5.1.1.5

### 5.1.3.7 MFBI Test frequencies for operation Band IX overlapping with Band III

- Same as per section 5.1.1.9

### 5.1.3.8 MFBI Test frequencies for operation Band X overlapping with Band IV

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 2888   | 1712.6 MHz          | 3113   | 2112.6 MHz            |
| Mid Range         | 3025   | 1740.0 MHz          | 3250   | 2140.0 MHz            |
| High Range        | 3087   | 1752.4 MHz          | 3312   | 2152.4 MHz            |

### 5.1.3.9 MFBI Test frequencies for operation Band XVIII overlapping with Band V

- FFS

### 5.1.3.10 MFBI Test frequencies for operation Band XVIII overlapping with Band XXVI

- FFS

### 5.1.3.11 MFBI Test frequencies for operation Band XIX overlapping with Band V

- Same as per section 5.1.1.19

### 5.1.3.12 MFBI Test frequencies for operation Band XIX overlapping with Band XXVI

- Same as per section 5.1.1.19

### 5.1.3.13 MFBI Test frequencies for operation Band XXV overlapping with Band II

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 4888   | 1852.6 MHz          | 5113   | 1932.6 MHz            |
| Mid Range         | 5025   | 1880.0 MHz          | 5250   | 1960.0 MHz            |
| High Range        | 5162   | 1907.4 MHz          | 5387   | 1987.4 MHz            |

### 5.1.3.14 MFBI Test frequencies for operation Band XXVI overlapping with Band V

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 5588   | 826.6 MHz           | 5813   | 871.6 MHz             |
| Mid Range         | 5630   | 835.0 MHz           | 5855   | 880.0 MHz             |
| High Range        | 5687   | 846.4 MHz           | 5912   | 891.4 MHz             |

### 5.1.3.15 MFBI Test frequencies for operation Band XXVI overlapping with Band XVIII

- FFS

### 5.1.3.16 MFBI Test frequencies for operation Band XXVI overlapping with Band XIX

| Test Frequency ID | UARFCN | Frequency of Uplink | UARFCN | Frequency of Downlink |
|-------------------|--------|---------------------|--------|-----------------------|
| Low Range         | 5618   | 832.6 MHz           | 5843   | 877.6 MHz             |
| Mid Range         | 5643   | 837.5 MHz           | 5868   | 882.6 MHz             |
| High Range        | 5668   | 842.5 MHz           | 5893   | 887.6 MHz             |

## 5.2 Radio conditions

There are a number of radio propagation conditions defined in 3GPP TS 34.121 [2] for FDD mode and 3GPP TS 34.122 [5] for TDD mode, which may be required for a number of tests and hence can be considered as Common Conditions for FDD mode and TDD mode respectively.

NOTE: The System Simulator is required to support at least the normal Propagation Condition; support of the other propagation conditions is optional, depending on the specific test supported by the simulator.

### 5.2.1 Normal propagation condition

This condition provides a connection between the System Simulator that is effectively free from Additive White Gaussian Noise, and where there are no fading or multipath effects. This condition will be used for Signalling tests.

### 5.2.2 Static propagation condition

See 3GPP TS 34.121 [2], annex D for FDD.

For TDD mode, the propagation for the static performance measurement is an Additive White Gaussian Noise (AWGN) environment. No fading and multi-paths exist for this propagation model.

### 5.2.3 Multi-path fading propagation conditions

See 3GPP TS 34.121 [2], annex D for FDD and 3GPP TS 34.122 [5], annex D for TDD.

### 5.2.4 Moving propagation conditions

See 3GPP TS 34.121 [2], annex D for FDD. There are no currently defined Moving propagation conditions for TDD.

### 5.2.5 Birth-Death propagation conditions

See 3GPP TS 34.121 [2], annex D for FDD. There are no currently defined Birth-Death propagation conditions for TDD.

### 5.2.6 High speed train conditions

See 3GPP TS 34.121 [2], annex D for FDD. There are no currently defined High speed train conditions for TDD.

## 5.3 Standard test signals

Reference 3GPP TS 25.101 [11] and 3GPP TS 25102 [12] for definitions of standard test signals.

## 5.4 Signal levels

The power levels given in clauses 5.4.1 and 5.4.2 apply for Signalling tests only. For RF tests power levels are given in 3GPP TS 34.121 [2], annex E for FDD and 3GPP TS 34.122 [5], annex E for TDD.

### 5.4.1 Downlink signal levels

The default signal levels are defined in clauses 6.1.5, 6.1.6, and 6.1.7 of this document. The SS shall be capable of setting these downlink signal levels, and any levels specifically defined in a test case within a maximum tolerance of +/- 3dB. If a test case fails due to inaccurate setting of the downlink signal levels by the SS, then the SS is adjusted in order that it provides the correct level, measured at the UE antenna, for the specific test case.

### 5.4.2 Uplink signal levels

The SS shall be capable of transmitting uplink TPC commands in order to meet the requirements specified in 3GPP TS 34.123-3 clause 7.3.2.2.14a.

## 5.5 Downlink Physical Channels Code Allocation

### 5.5.1 Downlink physical channels code allocation for Signalling (FDD)

#### 5.5.1.1 Downlink physical channels code allocation for non-HSDPA test cases

Table 5.5.1.1.1 shows details of the downlink code tree for the Primary Scrambling Code, SF=16 & Code=0 used in the non-HSDPA test cases. The numbers in the Code columns indicate the code number with the respective spreading factor (SF). The Note column refers to specifications where the code allocation is defined.

**Table 5.5.1.1.1: Non-HSDPA Downlink Physical Channels Code Allocation for SF=16 Code=0**

| Code with SF=256                                                                                                                                                                                                                                                      | Code with SF=128 | Code with SF=64 | Note                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|--------------------------------------------------------------------------------------------------------------------|
| 0: P-CPICH                                                                                                                                                                                                                                                            | 0: -             | 0: -            | TS 25.213                                                                                                          |
| 1: P-CCPCH                                                                                                                                                                                                                                                            |                  |                 | TS 25.213                                                                                                          |
| 2: PICH                                                                                                                                                                                                                                                               | 1: -             |                 | Section 6.1.0b (SIB5)                                                                                              |
| 3: AICH                                                                                                                                                                                                                                                               |                  |                 | Section 6.1.0b (SIB5)                                                                                              |
| 4: -                                                                                                                                                                                                                                                                  | 2: -             | 1: S-CCPCH      | Sections 6.1.0b, 6.1.1 & 6.1.3 (SIB5)                                                                              |
| 5: -                                                                                                                                                                                                                                                                  |                  |                 |                                                                                                                    |
| 6: -                                                                                                                                                                                                                                                                  | 3: -             |                 |                                                                                                                    |
| 7: -                                                                                                                                                                                                                                                                  |                  |                 |                                                                                                                    |
| 8: -                                                                                                                                                                                                                                                                  | 4: S-CCPCH       | 2: S-CCPCH      | Code 2: Section 6.1.3 (SIB5)<br>Code 4: Sections 6.1.1 & 6.1.2 (SIB5)<br>Code 5: Section 6.1.2 (SIB5)<br>See Note. |
| 9: -                                                                                                                                                                                                                                                                  |                  |                 |                                                                                                                    |
| 10: -                                                                                                                                                                                                                                                                 | 5: S-CCPCH       |                 |                                                                                                                    |
| 11: -                                                                                                                                                                                                                                                                 |                  |                 |                                                                                                                    |
| 12: -                                                                                                                                                                                                                                                                 | 6: S-CCPCH       | 3: -            | Section 6.1.3 (SIB5)                                                                                               |
| 13: -                                                                                                                                                                                                                                                                 |                  |                 |                                                                                                                    |
| 14: -                                                                                                                                                                                                                                                                 | 7: -             |                 | -                                                                                                                  |
| 15: -                                                                                                                                                                                                                                                                 |                  |                 |                                                                                                                    |
| Note: The default code allocation is extracted from section 6.1.0b. The S-CCPCH channels on codes 2, 4 & 5 are defined in specific cell configurations, as per sections 6.1.1, 6.1.2 & 6.1.3. For each configuration described above, the orthogonality is respected. |                  |                 |                                                                                                                    |

#### 5.5.1.2 Downlink physical channels code allocation for HSDPA test cases

Table 5.5.1.2.1 shows details of the downlink code tree for the Primary Scrambling Code, SF=16 & Code=0 used in the HSDPA test cases. Table 5.5.1.2.2 shows the downlink code tree used for 64QAM HSDPA test cases. The numbers in the Code columns indicate the code number with the respective spreading factor (SF). The Note column refers to specifications where the code allocation is defined.

The HS-PDSCH channels are allocated dynamically by the SS during execution of the HSDPA test case, under the same Scrambling Code as the HS-SCCH channel, on SF=16, in the range Code=1 to Code=15.

**Table 5.5.1.2.1: HSDPA Downlink Physical Channels Code Allocation for SF=16 Code=0**

| Code with SF=256 | Code with SF=128 | Code with SF=64 | Note                           |
|------------------|------------------|-----------------|--------------------------------|
| 0: P-CPICH       | 0: -             | 0: -            | TS 25.213                      |
| 1: P-CCPCH       |                  |                 | TS 25.213                      |
| 2: PICH          | 1: -             |                 | Section 6.1.0b (SIB5)          |
| 3: AICH          |                  |                 | Section 6.1.0b (SIB5)          |
| 4: -             | 2: -             | 1: S-CCPCH      | Section 6.1.0b (SIB5)          |
| 5: -             | 3: -             |                 |                                |
| 6: -             |                  |                 |                                |
| 7: -             |                  |                 |                                |
| 8: -             | 4: -             | 2: -            | -                              |
| 9: -             | 5: -             |                 |                                |
| 10: -            |                  |                 |                                |
| 11: -            |                  |                 |                                |
| 12: -            | 6: -             | 3: -            | -                              |
| 13: -            |                  |                 |                                |
| 14: -            |                  |                 |                                |
| 15: -            | 7: HS-SCCH       |                 | Section 9.1.1 RB Setup message |

**Table 5.5.1.2.2: HSDPA [64QAM] Downlink Physical Channels Code Allocation for SF=16 Code=0**

| Code with SF=256 | Code with SF=128 | Code with SF=64 | Note                                                                    |
|------------------|------------------|-----------------|-------------------------------------------------------------------------|
| 0: P-CPICH       | 0: -             | 0: -            | TS 25.213                                                               |
| 1: P-CCPCH       |                  |                 | TS 25.213                                                               |
| 2: PICH          | 1: -             |                 | Section 6.1.0b (SIB5)                                                   |
| 3: AICH          |                  |                 | Section 6.1.0b (SIB5)                                                   |
| 4: -             | 2: -             | 1: S-CCPCH      | Section 6.1.0b (SIB5)                                                   |
| 5: -             |                  |                 |                                                                         |
| 6: -             | 3: -             |                 |                                                                         |
| 7: -             |                  |                 |                                                                         |
| 8: -             | 4: HS-SCCH1      | 2: -            | Section 9.1.1 RB Setup message, condition A17a                          |
| 9: -             |                  |                 |                                                                         |
| 10: -            | 5: HS-SCCH2      |                 |                                                                         |
| 11: -            |                  |                 |                                                                         |
| 12: S-CPICH      | 6: -             | 3: -            | Section 9.1.1 RB Setup message, condition A28 (when mimo is configured) |
| 13: DPCH-        |                  |                 | Section 9.1.1 RB Setup message, condition A17a                          |
| 14: -            | 7: -             |                 |                                                                         |
| 15: -            |                  |                 |                                                                         |

### 5.5.1.3 Downlink physical channels code allocation for E-DCH test cases

Table 5.5.1.3.1 shows details of the downlink code tree for the Primary Scrambling Code, SF=16 and Code=0 used in the E-DCH test cases for the case when HSDPA 64QAM is not used. Table 5.5.1.3.2 shows details of the downlink code tree for the Primary Scrambling Code, SF=16 and Code=0 used in the E-DCH test cases for the HSDPA 64QAM case. Table 5.5.1.3.3 shows in addition to Table 5.5.1.3.2 details of the downlink code trees for the Primary Scrambling Code, SF=16 and Code=1 used in the E-DCH test cases for the HSDPA 64QAM and MIMO case. The numbers in the Code columns indicate the code number with the respective spreading factor (SF). The Note column refers to specifications where the code allocation is defined.

The HS-PDSCH channels are allocated dynamically by the SS during execution of the HSDPA test case, under the same Scrambling Code as the HS-SCCH channel, on SF=16, in the range Code=1 to Code=15 when Tables 5.5.1.3.1 or 5.5.1.3.2 are used; or in the range Code=2 to Code=15 when Table 5.5.1.3.3 is used in combination with Table 5.5.1.3.2 (HSDPA with 64QAM and MIMO).

**Table 5.5.1.3.1: E-DCH Downlink Physical Channels Code Allocation for SF=16 Code=0**

| Code with SF=256 | Code with SF=128 | Code with SF=64                | Note                           |                                                                                                                           |
|------------------|------------------|--------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 0: P-CPICH       | 0: -             | 0: -                           | TS 25.213                      |                                                                                                                           |
| 1: P-CCPCH       |                  |                                | TS 25.213                      |                                                                                                                           |
| 2: PICH          | 1: -             |                                | Section 6.1.0b (SIB5)          |                                                                                                                           |
| 3: AICH          |                  |                                | Section 6.1.0b (SIB5)          |                                                                                                                           |
| 4: -             | 2: -             | 1: S-CCPCH                     | Section 6.1.0b (SIB5)          |                                                                                                                           |
| 5: -             |                  |                                |                                |                                                                                                                           |
| 6: -             | 3: -             |                                |                                |                                                                                                                           |
| 7: -             |                  |                                |                                |                                                                                                                           |
| 8: -             | 4: E-HICH/E-RGCH | 2: -                           | Section 9.1.1 RB Setup message |                                                                                                                           |
| 9: -             |                  |                                | Section 9.1.1 RB Setup message |                                                                                                                           |
| 10: E-AGCH       | 5: -             |                                | 3: -                           | Section 9.1.1 RB Setup message, condition A14<br>Section 9.1.1 RB Setup message, condition A28 (when mimo is configured.) |
| 11: -            |                  |                                |                                |                                                                                                                           |
| 12: F-DPCH       | 6: -             | Section 9.1.1 RB Setup message |                                |                                                                                                                           |
| 13: S-CPICH      |                  |                                |                                |                                                                                                                           |
| 14: -            | 7: HS-SCCH       |                                |                                |                                                                                                                           |
| 15: -            |                  |                                |                                |                                                                                                                           |

**Table 5.5.1.3.2: E-DCH Downlink Physical Channels Code Allocation for SF=16 Code=0 with HSDPA [64QAM]**

| Code with SF=256 | Code with SF=128 | Code with SF=64 | Note                           |                                                                                   |
|------------------|------------------|-----------------|--------------------------------|-----------------------------------------------------------------------------------|
| 0: P-CPICH       | 0: -             | 0: -            | TS 25.213                      |                                                                                   |
| 1: P-CCPCH       |                  |                 | TS 25.213                      |                                                                                   |
| 2: PICH          | 1: -             |                 | Section 6.1.0b (SIB5)          |                                                                                   |
| 3: AICH          |                  |                 | Section 6.1.0b (SIB5)          |                                                                                   |
| 4: -             | 2: -             | 1: S-CCPCH      | Section 6.1.0b (SIB5)          |                                                                                   |
| 5: -             |                  |                 |                                |                                                                                   |
| 6: -             | 3:               |                 |                                |                                                                                   |
| 7: -             |                  |                 |                                |                                                                                   |
| 8: -             | 4: E-HICH/E-RGCH | 2: -            | Section 9.1.1 RB Setup message |                                                                                   |
| 9: -             |                  |                 | Section 9.1.1 RB Setup message |                                                                                   |
| 10: E-AGCH       | 5: -             |                 | 3: -                           | Section 9.1.1 RB Setup message, condition A17c or any other condition using 64QAM |
| 11: F-DPCH       |                  |                 |                                |                                                                                   |
| 12:              | 6: HS-SCCH1      |                 |                                |                                                                                   |
| 13: -            |                  |                 |                                |                                                                                   |
| 14: -            | 7: HS-SCCH2      |                 |                                |                                                                                   |
| 15: -            |                  |                 |                                |                                                                                   |

**Table 5.5.1.3.3: E-DCH Downlink Physical Channels Code Allocation for SF=16 Code=1 with HSDPA [64QAM and MIMO]**

| Code with SF=256 | Code with SF=128 | Code with SF=64 | Note                                                                                                      |
|------------------|------------------|-----------------|-----------------------------------------------------------------------------------------------------------|
| 16: -            | 8: -             | 4: -            | -                                                                                                         |
| 17: -            |                  |                 | -                                                                                                         |
| 18: -            | 9: -             |                 | -                                                                                                         |
| 19: -            |                  |                 | -                                                                                                         |
| 20: -            | 10: -            | 5:-             | -                                                                                                         |
| 21: -            |                  |                 |                                                                                                           |
| 22: -            | 11: -            |                 |                                                                                                           |
| 23: -            |                  |                 |                                                                                                           |
| 24: -            | 12: -            | 6: -            | -                                                                                                         |
| 25: -            |                  |                 | -                                                                                                         |
| 26: -            | 13: -            |                 | -                                                                                                         |
| 27: -            |                  |                 | -                                                                                                         |
| 28: -            | 14: -            | 7: -            | -                                                                                                         |
| 29: S-CPICH      |                  |                 | Section 9.1.1 RB Setup message, condition A33 or any other condition using combination of 64QAM and MIMO. |
| 30: -            |                  |                 | -                                                                                                         |
| 31:-             |                  |                 | -                                                                                                         |

#### 5.5.1.4 Downlink physical channels code allocation for MBMS/MBSFN test cases

Table 5.5.1.4 shows details of the downlink code tree for the Primary Scrambling Code used in the MBMS/MBSFN test cases. The numbers in the Code columns indicate the code number with the respective spreading factor (SF). The Note column refers to specifications where the code allocation is defined.



Table 5.5.1.4: MBMS/MBSFN Downlink Physical Channels Code Allocation

| Code with SF=256 | Code with SF=128 | Code with SF=64 | Code with SF=32 | Code with SF=16 | Code with SF=8 | Note                                                             |
|------------------|------------------|-----------------|-----------------|-----------------|----------------|------------------------------------------------------------------|
| 0: P-CPICH       | 0: -             | 0: -            | 0: -            | 0: -            | 0: -           | TS 25.213                                                        |
| 1: P-CCPCH       |                  |                 |                 |                 |                | TS 25.213                                                        |
| 2: PICH          | 1: -             | 1: S-CCPCH1     | 1: -            | 1: S-CCPCH3     | 1: S-CCPCH3    | Clause 6.1.0b (SIB5)                                             |
| 3: AICH          |                  |                 |                 |                 |                | Clause 6.1.0b (SIB5)                                             |
| 4: -             | 2: -             | 2               | 2: S-CCPCH3     | 2: S-CCPCH4     | 1: S-CCPCH3    | Clause 6.1.0b (SIB5)                                             |
| 5: -             |                  |                 |                 |                 |                |                                                                  |
| 6: -             | 3: -             | 3               | 3: S-CCPCH4     | 3: -            | 1: S-CCPCH3    | 64.8kbps RB for MTCH                                             |
| 7: -             |                  |                 |                 |                 |                |                                                                  |
| 8: MICH          | 4: -             | 4               | 4: -            | 2: S-CCPCH4     | 1: S-CCPCH3    | Code 1: 129.6 kbps RB for MTCH<br>Code 2: 64.8kbps RB for MTCH   |
| 9: S-CCPCH2      | 5: -             |                 |                 |                 |                |                                                                  |
| 10: -            | 6: -             | 5: -            | 5: -            | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 11: -            |                  |                 |                 |                 |                |                                                                  |
| 12: -            | 7: -             | 6: -            | 6: -            | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 13: -            |                  |                 |                 |                 |                |                                                                  |
| 14: -            | 8: -             | 7: -            | 7: -            | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 15: -            |                  |                 |                 |                 |                |                                                                  |
| 16: -            | 9: -             | 8: -            | 8: -            | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 17: -            |                  |                 |                 |                 |                |                                                                  |
| 18: -            | 10: -            | 9: -            | 9: -            | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 19: -            |                  |                 |                 |                 |                |                                                                  |
| 20: -            | 11: -            | 10: -           | 10: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 21: -            |                  |                 |                 |                 |                |                                                                  |
| 22: -            | 12: -            | 11: -           | 11: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 23: -            |                  |                 |                 |                 |                |                                                                  |
| 24: -            | 13: -            | 12: -           | 12: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 25: -            |                  |                 |                 |                 |                |                                                                  |
| 26: -            | 14: -            | 13: -           | 13: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 27: -            |                  |                 |                 |                 |                |                                                                  |
| 28: -            | 15: -            | 14: -           | 14: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 29: -            |                  |                 |                 |                 |                |                                                                  |
| 30: -            | 16: -            | 15: -           | 15: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 31: -            |                  |                 |                 |                 |                |                                                                  |
| 32: -            | 17: -            | 16: -           | 16: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 33: -            |                  |                 |                 |                 |                |                                                                  |
| 34: -            | 18: -            | 17: -           | 17: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 35: -            |                  |                 |                 |                 |                |                                                                  |
| 36: -            | 19: -            | 18: -           | 18: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 37: -            |                  |                 |                 |                 |                |                                                                  |
| 38: -            | 20: -            | 19: -           | 19: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 39: -            |                  |                 |                 |                 |                |                                                                  |
| 40: -            | 21: -            | 20: -           | 20: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 41: -            |                  |                 |                 |                 |                |                                                                  |
| 42: -            | 22: -            | 21: -           | 21: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 43: -            |                  |                 |                 |                 |                |                                                                  |
| 44: -            | 23: -            | 22: -           | 22: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 45: -            |                  |                 |                 |                 |                |                                                                  |
| 46: -            | 24: -            | 23: -           | 23: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 47: -            |                  |                 |                 |                 |                |                                                                  |
| 48: -            | 25: -            | 24: -           | 24: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 49: -            |                  |                 |                 |                 |                |                                                                  |
| 50: -            | 26: -            | 25: -           | 25: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 51: -            |                  |                 |                 |                 |                |                                                                  |
| 52: -            | 27: -            | 26: -           | 26: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
| 53: -            |                  |                 |                 |                 |                |                                                                  |
| 54: -            | 28: -            | 27: -           | 27: -           | 3: -            | 1: S-CCPCH3    | Code 1: 259.2 kbps RB for MTCH<br>Code 2: 129.6 kbps RB for MTCH |
|                  |                  |                 |                 |                 |                |                                                                  |

|       |       |       |       |      |             |                        |
|-------|-------|-------|-------|------|-------------|------------------------|
| 55: - |       |       |       |      |             |                        |
| 56: - | 28: - | 14: - | 7: -  |      |             |                        |
| 57: - |       |       |       |      |             |                        |
| 58: - | 29: - |       |       |      |             |                        |
| 59: - |       |       |       |      |             |                        |
| 60: - | 30: - | 15: - |       |      |             |                        |
| 61: - |       |       |       |      |             |                        |
| 62: - | 31: - |       |       |      |             |                        |
| 63: - |       |       |       |      |             |                        |
| 64: - | 32: - | 16: - | 8: -  | 4: - | 2: S-CCPCH4 | 259.2 kbps RB for MTCH |
| 65: - |       |       |       |      |             |                        |
| 66: - | 33: - |       |       |      |             |                        |
| 67: - |       |       |       |      |             |                        |
| 68: - | 34: - | 17: - |       |      |             |                        |
| 69: - |       |       |       |      |             |                        |
| 70: - | 35: - |       |       |      |             |                        |
| 71: - |       |       |       |      |             |                        |
| 72: - | 36: - | 18: - | 9: -  |      |             |                        |
| 73: - |       |       |       |      |             |                        |
| 74: - | 37: - |       |       |      |             |                        |
| 75: - |       |       |       |      |             |                        |
| 76: - | 38: - | 19: - |       |      |             |                        |
| 77: - |       |       |       |      |             |                        |
| 78: - | 39: - |       |       |      |             |                        |
| 79: - |       |       |       |      |             |                        |
| 80: - | 40: - | 20: - | 10: - | 5: - |             |                        |
| 81: - |       |       |       |      |             |                        |
| 82: - | 41: - |       |       |      |             |                        |
| 83: - |       |       |       |      |             |                        |
| 84: - | 42: - | 21: - |       |      |             |                        |
| 85: - |       |       |       |      |             |                        |
| 86: - | 43: - |       |       |      |             |                        |
| 87: - |       |       |       |      |             |                        |
| 88: - | 44: - | 22: - | 11: - |      |             |                        |
| 89: - |       |       |       |      |             |                        |
| 90: - | 45: - |       |       |      |             |                        |
| 91: - |       |       |       |      |             |                        |
| 92: - | 46: - | 23: - |       |      |             |                        |
| 93: - |       |       |       |      |             |                        |
| 94: - | 47: - |       |       |      |             |                        |
| 95: - |       |       |       |      |             |                        |

## 5.5.2 Downlink physical channels code allocation for Signalling (TDD)

<FFS>

### 5.5.2.1 Downlink physical channels code allocation for Signalling (3.84 Mcps TDD IMB)

Table 5.5.2.1 shows details of the downlink code tree for the Primary Scrambling Code used in the MBSFN test cases. The numbers in the Code columns indicate the code number with the respective spreading factor (SF). The Note column refers to specifications where the code allocation is defined.

**Table 5.5.2.1: MBSFN Downlink Physical Channels Code Allocation (3.84 Mcps TDD IMB)**

| Physical Channels | Spreading Factor | Code index | Note      |
|-------------------|------------------|------------|-----------|
| P-CCPCH           | 256              | 1          | TS 25.223 |
| P-CPICH           | 256              | 0          | TS 25.223 |
| T-CPICH           | 16               | 1 to 15    | TS 25.223 |
| S-CCPCH           | 256              | 2 to 15    | TS 25.223 |
| S-CCPCH Type 2    | 16               | 1 to 15    | TS 25.223 |
| MICH              | 256              | 2 to 15    | TS 25.223 |

### 5.5.2.2 Physical channels code allocation for Signalling (1.28 Mcps TDD)

Table 5.5.2.2 shows details of the physical channel code used in the test cases. The numbers in the Code columns indicate the timeslot and code number with the respective spreading factor (SF). The Note column refers to specifications where the code allocation is defined.

**Table 5.5.2.2: Physical Channels Code Allocation (1.28 Mcps TDD IMB)**

| Physical Channels | Time slot | Spreading Factor | Code index | Note      |
|-------------------|-----------|------------------|------------|-----------|
| P-CCPCH           | 0         | 16               | 0, 1       | TS 25.223 |
| P-RACH            | 1         | 8                | 7, 8       | TS 25.223 |
| FPACH             | 0         | 16               | 15         | TS 25.223 |
| PICH              | 0         | 16               | 5, 6       | TS 25.223 |
| S-CCPCH           | 0         | 16               | 7, 8       | TS 25.223 |
| HS-SCCH           | 6         | 16               | 11, 12     | TS 25.223 |
| HS-SICH           | 1         | 16               | 13         | TS 25.223 |
| ERUCCH            | 1         | 8                | 8          | TS 25.223 |
| E-AGCH            | 6         | 16               | 13, 14     | TS 25.223 |
| E-HICH            | 6         | 16               | 15         | TS 25.223 |

### 5.5.3 Downlink physical channels code allocation for RF

The downlink physical channels code allocation for RF tests is defined in 3GPP TS 34.121 [2] Annex E.6.

## 6 Reference system configurations

This clause defines a number of Reference System Configurations which can be used for different tests.

### 6.1 Simulated network environments

The UE will eventually have to operate in either single mode networks (FDD or TDD), dual mode networks (FDD+TDD), or inter-RAT networks (FDD or TDD + GSM).

The following tables list the default parameters for 1 to 8 cell environments for testing.

To simplify TTCN implementation the total number of simultaneous cells in intra-frequency, inter-frequency and inter-RAT cell information lists (SIB11) have been limited to 8 (or 16 in MBMS test cases) and a specific cell numbering scheme have been defined to associate cell identifiers with type of cell.

- Cell 1, Cell 2, Cell 3, Cell 7, Cell 8 and Cell 11 are associated with FDD/TDD cells using frequency f1;  
Note that Cell 7 and Cell 8 can be configured on frequency f3 in some cases.
- Cell 4, Cell 5 and Cell 6 are associated with FDD/TDD cells using frequency f2;
- Cell 9 and Cell 10 are associated with GSM cells;
- Cell 21, Cell 22, Cell 23, Cell 27 and Cell 28 are associated with MBMS cells using frequency f1;  
Note that Cell 27 and Cell 28 can be configured on frequency f3 in some cases.
- Cell 24, Cell 25 and Cell 26 are associated with MBMS cells using frequency f2.
- Cell 31, Cell 32, Cell 37 and Cell 38 are associated with MBMS in MBSFN mode cells (clusters) using frequency f1 (FDD and TDD).
- Cell 33, Cell 34, Cell 35 and Cell 36 are associated with MBMS in MBSFN mode clusters using frequency f2.  
Note that Cell 36 and/or Cell 37 can be configured on frequency f3 in some cases (FDD and TDD).
- Cell 39 is associated with WLAN AP using Mid range frequency as defined in 36.508[45]

Note: For the purpose of protocol conformance testing the simulation of an MBSFN cluster may be achieved with a single MBSFN cell.

For protocol testing in FDD and TDD intra- and inter-frequency cell environment Cell 1 to Cell 8 are used.

For RF and RRM in FDD and TDD intra- and inter-frequency cell environment Cell 1 to Cell 8 and Cell 11 are used.

For FDD/GSM and TDD/GSM inter-RAT cell environment Cell 1 to Cell 6, Cell 9 and Cell 10 are used.

For RAN assisted WLAN interworking FDD cell+ WLAN AP and TDD cell+ WLAN AP scenarios Cell 1 and Cell 39 are used.

For FDD inter-band testing the cells using frequency f1 are on one supported FDD band and the cells using frequency f2 are on a different supported FDD band. FDD inter-band testing only applies for UEs supporting multiple FDD bands simultaneously.

For MBMS testing intra- and inter-frequency cell environment Cell 21 to Cell 28 are used.

For MBSFN testing intra- and inter-frequency cell environment Cell 31 to Cell 38 are used (FDD and TDD).

In this clause, decimal values are normally used. However, sometimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

If a test case includes cells in a band which only exist in one country, the MCC of these cells shall be set to the MCC of this country. Also, unless this test case is simulating a inter-PLMN scenario with a foreign MCC, the MCC of all cells in the test case shall be set to the MCC of this country too.

#### 6.1.0a Default Master Information Block and Scheduling Block messages

### 6.1.0a.1 Grouping SIBs for testing

| Mandatory in 34.108                                                                                                                                                                                                                                        | Used in Idle Mode      | MIB, SB1, (SB2), SIB1, SIB2, SIB3, SIB5/SIB5bis, SIB7, SIB11 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------|
|                                                                                                                                                                                                                                                            | Used in Connected Mode | SIB4, SIB6, SIB12                                            |
| Mandatory for FDD CPCH (R99 and Rel-4 only)                                                                                                                                                                                                                |                        | SIB8, SIB9                                                   |
| Mandatory for FDD DRAC                                                                                                                                                                                                                                     |                        | SIB10                                                        |
| Mandatory for TDD                                                                                                                                                                                                                                          |                        | SIB14, SIB17                                                 |
| Mandatory for LCS                                                                                                                                                                                                                                          |                        | SIB15, SIB15.1, SIB15.2, SIB15.3                             |
| Mandatory for ANSI-41 system                                                                                                                                                                                                                               |                        | SIB13, SIB13.1, SIB13.2, SIB13.3, SIB13.4                    |
| Mandatory for InterSys HO from GERAN To UTRAN                                                                                                                                                                                                              |                        | SIB16                                                        |
| Mandatory for Cell reselection                                                                                                                                                                                                                             |                        | SIB18                                                        |
| Mandatory for Inter-RAT frequencies and priority information                                                                                                                                                                                               |                        | SIB19                                                        |
| Mandatory for EAB                                                                                                                                                                                                                                          |                        | SIB21                                                        |
| Mandatory for Concurrent deployment of 2ms and 10ms TTI in a cell, NodeB triggered HS-DPCCH transmission, Fallback to R99 PRACH, TTI alignment, Per HARQ process activation and de-activation and HS-DSCH DRX operation with second DRX cycle in CELL_FACH |                        | SIB22                                                        |
| Mandatory for RAN assisted WLAN interworking                                                                                                                                                                                                               |                        | SIB23                                                        |

### 6.1.0a.2 SIB configurations

The following SIB configurations are used.

Configuration 1 is the default. It is used for the following test case scenarios:

- UTRAN/FDD only SYSTEM.
- UTRAN/FDD + GERAN SYSTEM (not involving inter-RAT handover from GERAN to UTRAN).
- UTRAN/TDD only SYSTEM.
- UTRAN/TDD + GERAN SYSTEM (not involving inter-RAT handover from GERAN to UTRAN).
- inter-RAT handover from GERAN to UTRAN test cases.

Configuration 2 is for test cases which need two S<sub>CCPCH</sub> or two PRACH.

Configuration 3 is for inter-RAT handover from GERAN to UTRAN test cases.

Configuration 4 is applied to MBMS test cases.

Configuration 5 is applied to MBMS MBSFN test cases.

Configuration 6 is applied to the interRAT E-UTRA - UTRA test. The UTRA SIB scheduling is referred to 36.508 [45] clause 4.4.4.2.

Configuration 7 is applied to the interRAT EUTRA - UTRA - GERAN test. The UTRA SIB scheduling is referred to 36.508 [45] clause 4.4.4.3.

Configuration 8 is applied to the test cases which need a long SIB5/SIB5bis content: for example, enhanced FACH Uplink.

Configuration 9 is applied to the EAB test cases which need SIB21.

Configuration 10 is applied to test cases for Concurrent deployment of 2ms and 10ms TTI in a cell, NodeB triggered HS-DPCCH transmission, Fallback to R99 PRACH, TTI alignment, Per HARQ process activation and de-activation and HS-DSCH DRX operation with second DRX cycle in CELL\_FACH which need SIB22 and long SIB5/SIB5bis.

Configuration 11 is applied to the RAN Assisted WLAN interworking test cases which need SIB23

|                                                   |                                                                                 |
|---------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Configuration 1<br/>or configuration<br/>8</b> | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB6, SIB7, SIB11, SIB12, SIB18 |
|---------------------------------------------------|---------------------------------------------------------------------------------|

|                         |                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Configuration 2</b>  | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB12, SIB18                           |
| <b>Configuration 3</b>  | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB16, SIB18                           |
| <b>Configuration 4</b>  | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB11bis (empty segment), SIB16, SIB18 |
| <b>Configuration 5</b>  | MIB, SIB3, SIB5/SIB5bis, SIB11                                                                      |
| <b>Configuration 6</b>  | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB12, SIB18, SIB19                    |
| <b>Configuration 7</b>  | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB7, SIB11, SIB16, SIB18, SIB19                    |
| <b>Configuration 9</b>  | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB6, SIB7, SIB11, SIB12, SIB18, SIB21              |
| <b>Configuration 10</b> | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB6, SIB7, SIB11, SIB12, SIB18, SIB22              |
| <b>Configuration 11</b> | MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB5/SIB5bis, SIB6, SIB7, SIB11, SIB12, SIB18, SIB23              |

### 6.1.0a.3 SIB default schedule

| <b>Block Type</b> | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/SIB5bis | SIB6 | SIB7 | SIB11 | SIB12 | SIB18 |
|-------------------|-----|-----|------|------|------|------|--------------|------|------|-------|-------|-------|
| <b>SIB_REP</b>    | 8   | 16  | 64   | 64   | 64   | 64   | 64           | 64   | 16   | 64    | 64    | 64    |
| <b>SEG_COUNT</b>  | 1   | 1   | 1    | 1    | 1    | 1    | 4            | 4    | 1    | 3     | 3     | 1     |

|                           |     |     |            |              |     |              |              |              |
|---------------------------|-----|-----|------------|--------------|-----|--------------|--------------|--------------|
| <b>Frame No / SIB_POS</b> | 0   | 2   | 4          | 6            | 8   | 10           | 12           | 14           |
| <b>Block Type</b>         | MIB | SB1 | SIB7       | SIB6         | MIB | SIB6         | SIB6         | SIB6         |
| <b>Frame No / SIB_POS</b> | 16  | 18  | 20         | 22           | 24  | 26           | 28           | 30           |
| <b>Block Type</b>         | MIB | SB1 | SIB7/SIB3  | SIB1/SIB2    | MIB | SIB12        | SIB12        | SIB12        |
| <b>Frame No / SIB_POS</b> | 32  | 34  | 36         | 38           | 40  | 42           | 44           | 46           |
| <b>Block Type</b>         | MIB | SB1 | SIB7/SIB18 | SIB5/SIB5bis | MIB | SIB5/SIB5bis | SIB5/SIB5bis | SIB5/SIB5bis |
| <b>Frame No / SIB_POS</b> | 48  | 50  | 52         | 54           | 56  | 58           | 60           | 62           |
| <b>Block Type</b>         | MIB | SB1 | SIB7/SIB4  | -            | MIB | SIB11        | SIB11        | SIB11        |

The SEG\_COUNT in the table specifies the maximum possible transport BCH blocks scheduled for broadcasting. The more contents a SIB has, the more transport BCH blocks are needed for broadcasting. In order to keep SIB repetition period, SIB\_REP, unchanged in different test cases, each specific SIB in the individual test cases after the PER encoding shall not exceed the SEG\_COUNT scheduled.

If the transport BCH blocks actually required for a SIB is less than the scheduled SEG\_COUNT, the no\_segment blocks shall be placed at the rest scheduled transport BCH blocks. In addition, the corresponding SEG\_COUNT IE value in MIB or in SB1 shall be set to the number of transport BCH blocks actually required.

Contents of Master Information Block PLMN type is the case of GSM-MAP

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- MIB value tag</li> <li>- Supported PLMN types</li> <li>- PLMN type</li> <li>- PLMN identity</li> <li>- MCC digit</li> <li>- MNC digit</li> <li>- ANSI-41 Core Network information</li> <li>- References to other system information blocks and scheduling blocks</li> <li>- References to other system information blocks</li> <li>- Scheduling information</li> <li>- CHOICE Value tag</li> <li>- Cell Value tag</li> <li>- Scheduling</li> <li>- SEG_COUNT</li> <li>- SIB_REP</li> <li>- SIB_POS</li> <li>- SIB_POS offset info</li> <li>- SIB and SB type</li> <li>- Scheduling information</li> <li>- CHOICE Value tag</li> <li>- PLMN Value tag</li> <li>- SEG_COUNT</li> <li>- SIB_REP</li> <li>- SIB_POS</li> <li>- SIB_POS offset info</li> <li>- SIB and SB type</li> <li>- Scheduling information</li> <li>- CHOICE Value tag</li> <li>- Cell Value tag</li> <li>- SEG_COUNT</li> <li>- SIB_REP</li> <li>- SIB_POS</li> <li>- SIB_POS offset info</li> <li>- SIB and SB type</li> <li>- Scheduling information</li> <li>- CHOICE Value tag</li> <li>- Cell Value tag</li> <li>- SEG_COUNT</li> <li>- SIB_REP</li> <li>- SIB_POS</li> </ul> | <p>A valid MIB value tag value as defined in TS 25.331 [34]</p> <p>GSM-MAP</p> <p>Set to the same Mobile Country Codes stored in the test USIM card (clause 8.3.2.2 EF IMSI(IMSI)).</p> <p>Set to the same Mobile Network Codes stored in the test USIM card (clause 8.3.2.2 EF IMSI(IMSI)).</p> <p>Not Present</p> <p>Cell Value Tag</p> <p>A valid Cell value tag value as defined in TS 25.331 [34]</p> <p>1</p> <p>16</p> <p>2</p> <p>Not Present - use default</p> <p>Scheduling Block 1</p> <p>PLMN Value tag</p> <p>A valid PLMN value tag value as defined in TS 25.331 [34]</p> <p>1</p> <p>64</p> <p>22</p> <p>Not Present - use default</p> <p>System Information Type 1</p> <p>Cell Value tag</p> <p>A valid Cell value tag value as defined in TS 25.331 [34]</p> <p>1</p> <p>64</p> <p>22</p> <p>Not Present - use default</p> <p>System Information Type 2</p> <p>Cell Value tag</p> <p>1</p> <p>1</p> <p>64</p> <p>20</p> |
| <ul style="list-style-type: none"> <li>- SIB_POS offset info</li> <li>- SIB and SB type</li> <li>- Scheduling information</li> <li>- CHOICE Value tag</li> <li>- Cell Value tag</li> <li>- SEG_COUNT</li> <li>- SIB_REP</li> <li>- SIB_POS</li> <li>- SIB_POS offset info</li> <li>- SIB and SB type</li> <li>- Scheduling information</li> <li>- CHOICE Value tag</li> <li>- Cell Value tag</li> <li>- SEG_COUNT</li> <li>- SIB_REP</li> <li>- SIB_POS</li> <li>- SIB_POS offset info</li> <li>- SIB_OFF</li> <li>- SIB_OFF</li> <li>- SIB_OFF</li> <li>- SIB and SB type</li> <li>- CSG Indicator</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>Not Present - use default</p> <p>System Information Type 3</p> <p>Cell Value tag</p> <p>A valid Cell value tag value as defined in TS 25.331 [34]</p> <p>1</p> <p>64</p> <p>52</p> <p>Not Present - use default</p> <p>System Information Type 4</p> <p>Cell Value tag</p> <p>A valid Cell value tag value as defined in TS 25.331 [34]</p> <p>4</p> <p>64</p> <p>38</p> <p>4</p> <p>2</p> <p>2</p> <p>System Information Type 5 / System Information Type 5bis</p> <p>Not Present</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NOTE: System Information Type 5 or System Information Type 5bis are used dependent on the frequency band variant used by the SS.

#### Contents of Scheduling Block 1 (FDD and 1.28 Mcps TDD)

|                                                 |                                                           |
|-------------------------------------------------|-----------------------------------------------------------|
| - References to other system information blocks |                                                           |
| - Scheduling information                        | Cell Value tag                                            |
| - CHOICE Value tag                              | A valid Cell value tag value as defined in TS 25.331 [34] |
| - Cell Value tag                                | 4                                                         |
| - SEG_COUNT                                     | 64                                                        |
| - SIB_REP                                       | 6                                                         |
| - SIB_POS                                       |                                                           |
| - SIB_POS offset info                           | 4                                                         |
| - SIB_OFF                                       | 2                                                         |
| - SIB_OFF                                       | 2                                                         |
| - SIB_OFF                                       | 2                                                         |
| - SIB type SIBs only                            | System Information Type 6                                 |
| - Scheduling information                        |                                                           |
| - CHOICE Value tag                              | Not Present                                               |
| - SEG_COUNT                                     | 1                                                         |
| - SIB_REP                                       | 16                                                        |
| - SIB_POS                                       | 4                                                         |
| - SIB_POS offset info                           | Not Present                                               |
| - SIB type SIBs only                            | System Information Type 7                                 |
| - Scheduling information                        |                                                           |
| - CHOICE Value tag                              | Cell Value tag                                            |
| - Cell Value tag                                | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT                                     | 3                                                         |
| - SIB_REP                                       | 64                                                        |
| - SIB_POS                                       | 58                                                        |
| - SIB_POS offset info                           |                                                           |
| - SIB_OFF                                       | 2                                                         |
| - SIB_OFF                                       | 2                                                         |
| - SIB type SIBs only                            | System Information Type 11                                |
| - Scheduling information                        |                                                           |
| - CHOICE Value tag                              | Cell Value tag                                            |
| - Cell Value tag                                | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT                                     | 3                                                         |
| - SIB_REP                                       | 64                                                        |
| - SIB_POS                                       | 26                                                        |
| - SIB_POS offset info                           |                                                           |
| - SIB_OFF                                       | 2                                                         |
| - SIB_OFF                                       | 2                                                         |
| - SIB type SIBs only                            | System Information Type 12                                |
| - Scheduling information                        |                                                           |
| - CHOICE Value tag                              | Cell Value tag                                            |
| - Cell Value tag                                | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT                                     | 1                                                         |
| - SIB_REP                                       | 64                                                        |
| - SIB_POS                                       | 36                                                        |
| - SIB_POS offset info                           | Not Present                                               |
| - SIB type SIBs only                            | System Information Type 18                                |

#### Contents of Scheduling Block 1 (3.84 Mcps TDD and 7.68 Mcps TDD)

|                                                 |                                                           |
|-------------------------------------------------|-----------------------------------------------------------|
| - References to other system information blocks |                                                           |
| - Scheduling information                        | Cell Value tag                                            |
| - CHOICE Value tag                              | A valid Cell value tag value as defined in TS 25.331 [34] |
| - Cell Value tag                                | 4                                                         |
| - SEG_COUNT                                     | 128                                                       |
| - SIB_REP                                       | 3                                                         |
| - SIB_POS                                       |                                                           |
| - SIB_POS offset info                           |                                                           |



|                          |                                                           |
|--------------------------|-----------------------------------------------------------|
| - SIB_OFF                | 4                                                         |
| - SIB_OFF                | 2                                                         |
| - SIB_OFF                | 2                                                         |
| - SIB type SIBs only     | System Information Type 6                                 |
| - Scheduling information |                                                           |
| - CHOICE Value tag       | Not Present                                               |
| - SEG_COUNT              | 1                                                         |
| - SIB_REP                | 16                                                        |
| - SIB_POS                | 2                                                         |
| - SIB_POS offset info    | Not Present                                               |
| - SIB type SIBs only     | System Information Type 7                                 |
| - Scheduling information |                                                           |
| - CHOICE Value tag       | Cell Value tag                                            |
| - Cell Value tag         | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT              | 3                                                         |
| - SIB_REP                | 64                                                        |
| - SIB_POS                | 29                                                        |
| - SIB_POS offset info    |                                                           |
| - SIB_OFF                | 2                                                         |
| - SIB_OFF                | 2                                                         |
| - SIB type SIBs only     | System Information Type 11                                |
| - Scheduling information |                                                           |
| - CHOICE Value tag       | Cell Value tag                                            |
| - Cell Value tag         | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT              | 3                                                         |
| - SIB_REP                | 64                                                        |
| - SIB_POS                | 13                                                        |
| - SIB_POS offset info    |                                                           |
| - SIB_OFF                | 2                                                         |
| - SIB_OFF                | 2                                                         |
| - SIB type SIBs only     | System Information Type 12                                |
| - Scheduling information |                                                           |
| - CHOICE Value tag       | Not Present                                               |
| - SEG_COUNT              | 1                                                         |
| - SIB_REP                | 64                                                        |
| - SIB_POS                | 54                                                        |
| - SIB_POS offset info    | Not Present - use default                                 |
| - SIB type SIBs only     | System Information Type 14                                |
| - Scheduling information |                                                           |
| - CHOICE Value tag       | PLMN Value tag                                            |
| - PLMN Value tag         | A valid PLMN value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT              | 1                                                         |
| - SIB_REP                | 64                                                        |
| - SIB_POS                | 6                                                         |
| - SIB_POS offset info    | Not Present                                               |
| - SIB type SIBs only     | System Information Type 18                                |

## 6.1.0a.4 SIB special schedules

### 6.1.0a.4.1 SIB schedule for two S-CCPCH or two PRACH (For FDD and 1.28Mcps TDD)

**Table 1**

|                   |     |     |     |   |     |      |       |      |
|-------------------|-----|-----|-----|---|-----|------|-------|------|
| <b>Frame No.</b>  | 0   | 2   | 4   | 6 | 8   | 10   | 12    | 14   |
| <b>REP-POS</b>    | 0   | 1   | 2   | 3 | 4   | 5    | 6     | 7    |
| <b>Block Type</b> | MIB | SB1 | SB1 |   | MIB | SIB1 | SIB18 | SIB2 |

|                   |     |     |     |      |     |      |    |      |
|-------------------|-----|-----|-----|------|-----|------|----|------|
| <b>Frame No.</b>  | 16  | 18  | 20  | 22   | 24  | 26   | 28 | 30   |
| <b>REP-POS</b>    | 8   | 9   | 10  | 11   | 12  | 13   | 14 | 15   |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB7 | MIB | SIB3 |    | SIB4 |

|                   |     |     |     |                  |     |                  |                  |                  |
|-------------------|-----|-----|-----|------------------|-----|------------------|------------------|------------------|
| <b>Frame No.</b>  | 32  | 34  | 36  | 38               | 40  | 42               | 44               | 46               |
| <b>REP-POS</b>    | 16  | 17  | 18  | 19               | 20  | 21               | 22               | 23               |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB5/<br>SIB5bis | MIB | SIB5/<br>SIB5bis | SIB5/<br>SIB5bis | SIB5/<br>SIB5bis |

|                  |    |    |    |    |    |    |    |    |
|------------------|----|----|----|----|----|----|----|----|
| <b>Frame No.</b> | 48 | 50 | 52 | 54 | 56 | 58 | 60 | 62 |
|------------------|----|----|----|----|----|----|----|----|

|                   |     |     |     |      |     |       |       |       |
|-------------------|-----|-----|-----|------|-----|-------|-------|-------|
| <b>REP-POS</b>    | 24  | 25  | 26  | 27   | 28  | 29    | 30    | 31    |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB7 | MIB | SIB11 | SIB11 | SIB11 |

|                   |     |     |     |                  |     |                  |                  |                  |
|-------------------|-----|-----|-----|------------------|-----|------------------|------------------|------------------|
| <b>Frame No.</b>  | 64  | 66  | 68  | 70               | 72  | 74               | 76               | 78               |
| <b>REP-POS</b>    | 32  | 33  | 34  | 35               | 36  | 37               | 38               | 39               |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB5/<br>SIB5bis | MIB | SIB5/<br>SIB5bis | SIB5/<br>SIB5bis | SIB5/<br>SIB5bis |

|                   |     |     |     |      |     |      |    |      |
|-------------------|-----|-----|-----|------|-----|------|----|------|
| <b>Frame No.</b>  | 80  | 82  | 84  | 86   | 88  | 90   | 92 | 94   |
| <b>REP-POS</b>    | 40  | 41  | 42  | 43   | 44  | 45   | 46 | 47   |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB7 | MIB | SIB3 |    | SIB4 |

|                   |     |     |     |     |     |     |     |     |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>Frame No.</b>  | 96  | 98  | 100 | 102 | 104 | 106 | 108 | 110 |
| <b>REP-POS</b>    | 48  | 49  | 50  | 51  | 52  | 53  | 54  | 55  |
| <b>Block Type</b> | MIB | SB1 | SB1 |     | MIB |     |     |     |

|                   |     |     |     |      |     |       |       |       |
|-------------------|-----|-----|-----|------|-----|-------|-------|-------|
| <b>Frame No.</b>  | 112 | 114 | 116 | 118  | 120 | 122   | 124   | 126   |
| <b>REP-POS</b>    | 56  | 57  | 58  | 59   | 60  | 61    | 62    | 63    |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB7 | MIB | SIB12 | SIB12 | SIB12 |

SIB-repeat period (in frame)

**Table 2**

|                        |     |     |      |      |      |      |                  |      |       |       |       |
|------------------------|-----|-----|------|------|------|------|------------------|------|-------|-------|-------|
| <b>Block Type</b>      | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/<br>SIB5bis | SIB7 | SIB11 | SIB12 | SIB18 |
| <b>SIB Rep</b>         | 8   | 16  | 128  | 128  | 64   | 64   | 128              | 32   | 128   | 128   | 128   |
| <b>Max. No of seg.</b> | 1   | 2   | 1    | 1    | 1    | 1    | 8                | 1    | 3     | 3     | 1     |

#### 6.1.0a.4.2 SIB schedule for Idle Mode, Measurement and Inter RAT UTRAN to GERAN test cases

|                   |     |     |      |      |     |      |      |               |
|-------------------|-----|-----|------|------|-----|------|------|---------------|
| <b>Frame No.</b>  | 0   | 2   | 4    | 6    | 8   | 10   | 12   | 14            |
| <b>REP-POS</b>    | 0   | 1   | 2    | 3    | 4   | 5    | 6    | 7             |
| <b>Block Type</b> | MIB | SB1 | SIB6 | SIB6 | MIB | SIB6 | SIB6 | SIB7/<br>SIB3 |

|                   |     |     |           |       |     |       |       |                |
|-------------------|-----|-----|-----------|-------|-----|-------|-------|----------------|
| <b>Frame No.</b>  | 16  | 18  | 20        | 22    | 24  | 26    | 28    | 30             |
| <b>REP-POS</b>    | 8   | 9   | 10        | 11    | 12  | 13    | 14    | 15             |
| <b>Block Type</b> | MIB | SB1 | SIB1/SIB2 | SIB12 | MIB | SIB12 | SIB12 | SIB7/<br>SIB12 |

|                   |     |     |                  |                  |     |                  |                  |                |
|-------------------|-----|-----|------------------|------------------|-----|------------------|------------------|----------------|
| <b>Frame No.</b>  | 32  | 34  | 36               | 38               | 40  | 42               | 44               | 46             |
| <b>REP-POS</b>    | 16  | 17  | 18               | 19               | 20  | 21               | 22               | 23             |
| <b>Block Type</b> | MIB | SB1 | SIB5/<br>SIB5bis | SIB5/<br>SIB5bis | MIB | SIB5/<br>SIB5bis | SIB5/<br>SIB5bis | SIB7/<br>SIB18 |

|                   |     |     |       |       |     |       |       |               |
|-------------------|-----|-----|-------|-------|-----|-------|-------|---------------|
| <b>Frame No.</b>  | 48  | 50  | 52    | 54    | 56  | 58    | 60    | 62            |
| <b>REP-POS</b>    | 24  | 25  | 26    | 27    | 28  | 29    | 30    | 31            |
| <b>Block Type</b> | MIB | SB1 | SIB11 | SIB11 | MIB | SIB11 | SIB11 | SIB7/SIB<br>4 |

SIB-repeat period (in frame)

|                        |     |     |      |      |      |      |                  |      |      |       |       |       |
|------------------------|-----|-----|------|------|------|------|------------------|------|------|-------|-------|-------|
| <b>Block Type</b>      | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/<br>SIB5bis | SIB6 | SIB7 | SIB11 | SIB12 | SIB18 |
| <b>SIB Rep</b>         | 8   | 16  | 64   | 64   | 64   | 64   | 64               | 64   | 16   | 64    | 64    | 64    |
| <b>Max. No of seg.</b> | 1   | 1   | 1    | 1    | 1    | 1    | 4                | 4    | 1    | 4     | 4     | 1     |

## 6.1.0a.4.3 SIB schedule for Inter RAT handover GERAN to UTRAN test cases

|                   |     |     |     |   |     |      |       |      |
|-------------------|-----|-----|-----|---|-----|------|-------|------|
| <b>Frame No.</b>  | 0   | 2   | 4   | 6 | 8   | 10   | 12    | 14   |
| <b>REP-POS</b>    | 0   | 1   | 2   | 3 | 4   | 5    | 6     | 7    |
| <b>Block Type</b> | MIB | SB1 | SB1 |   | MIB | SIB1 | SIB18 | SIB2 |

|                   |     |     |     |      |     |      |    |      |
|-------------------|-----|-----|-----|------|-----|------|----|------|
| <b>Frame No.</b>  | 16  | 18  | 20  | 22   | 24  | 26   | 28 | 30   |
| <b>REP-POS</b>    | 8   | 9   | 10  | 11   | 12  | 13   | 14 | 15   |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB7 | MIB | SIB3 |    | SIB4 |

|                   |     |     |     |                  |     |                  |                  |                  |
|-------------------|-----|-----|-----|------------------|-----|------------------|------------------|------------------|
| <b>Frame No.</b>  | 32  | 34  | 36  | 38               | 40  | 42               | 44               | 46               |
| <b>REP-POS</b>    | 16  | 17  | 18  | 19               | 20  | 21               | 22               | 23               |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB5/<br>SIB5bis | MIB | SIB5/<br>SIB5bis | SIB5/<br>SIB5bis | SIB5/<br>SIB5bis |

|                   |     |     |     |      |     |       |       |       |
|-------------------|-----|-----|-----|------|-----|-------|-------|-------|
| <b>Frame No.</b>  | 48  | 50  | 52  | 54   | 56  | 58    | 60    | 62    |
| <b>REP-POS</b>    | 24  | 25  | 26  | 27   | 28  | 29    | 30    | 31    |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB7 | MIB | SIB11 | SIB11 | SIB11 |

|                   |     |     |     |       |     |       |       |       |
|-------------------|-----|-----|-----|-------|-----|-------|-------|-------|
| <b>Frame No.</b>  | 64  | 66  | 68  | 70    | 72  | 74    | 76    | 78    |
| <b>REP-POS</b>    | 32  | 33  | 34  | 35    | 36  | 37    | 38    | 39    |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB16 | MIB | SIB16 | SIB16 | SIB16 |

|                   |     |     |     |      |     |      |    |      |
|-------------------|-----|-----|-----|------|-----|------|----|------|
| <b>Frame No.</b>  | 80  | 82  | 84  | 86   | 88  | 90   | 92 | 94   |
| <b>REP-POS</b>    | 40  | 41  | 42  | 43   | 44  | 45   | 46 | 47   |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB7 | MIB | SIB3 |    | SIB4 |

|                   |     |     |     |       |     |       |       |       |
|-------------------|-----|-----|-----|-------|-----|-------|-------|-------|
| <b>Frame No.</b>  | 96  | 98  | 100 | 102   | 104 | 106   | 108   | 110   |
| <b>REP-POS</b>    | 48  | 49  | 50  | 51    | 52  | 53    | 54    | 55    |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB16 | MIB | SIB16 | SIB16 | SIB16 |

|                   |     |     |     |      |     |     |     |     |
|-------------------|-----|-----|-----|------|-----|-----|-----|-----|
| <b>Frame No.</b>  | 112 | 114 | 116 | 118  | 120 | 122 | 124 | 126 |
| <b>REP-POS</b>    | 56  | 57  | 58  | 59   | 60  | 61  | 62  | 63  |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB7 | MIB |     |     |     |

SIB-repeat period (in frame)

|                        |     |     |      |      |      |      |                  |      |       |       |       |
|------------------------|-----|-----|------|------|------|------|------------------|------|-------|-------|-------|
| <b>Block Type</b>      | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/<br>SIB5bis | SIB7 | SIB11 | SIB16 | SIB18 |
| <b>SIB Rep</b>         | 8   | 16  | 128  | 128  | 64   | 64   | 128              | 32   | 128   | 128   | 128   |
| <b>Max. No of seg.</b> | 1   | 2   | 1    | 1    | 1    | 1    | 4                | 1    | 3     | 8     | 1     |

## 6.1.0a.4.4 SIB schedule for MBMS test cases

**Table 3**

|                   |     |     |     |      |     |      |       |      |
|-------------------|-----|-----|-----|------|-----|------|-------|------|
| <b>Frame No.</b>  | 0   | 2   | 4   | 6    | 8   | 10   | 12    | 14   |
| <b>REP-POS</b>    | 0   | 1   | 2   | 3    | 4   | 5    | 6     | 7    |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB6 | MIB | SIB1 | SIB18 | SIB2 |

|                   |     |     |     |      |     |      |      |      |
|-------------------|-----|-----|-----|------|-----|------|------|------|
| <b>Frame No.</b>  | 16  | 18  | 20  | 22   | 24  | 26   | 28   | 30   |
| <b>REP-POS</b>    | 8   | 9   | 10  | 11   | 12  | 13   | 14   | 15   |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB7 | MIB | SIB3 | SIB6 | SIB4 |

|                   |     |     |     |                  |     |                  |                  |                  |
|-------------------|-----|-----|-----|------------------|-----|------------------|------------------|------------------|
| <b>Frame No.</b>  | 32  | 34  | 36  | 38               | 40  | 42               | 44               | 46               |
| <b>REP-POS</b>    | 16  | 17  | 18  | 19               | 20  | 21               | 22               | 23               |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB5/<br>SIB5bis | MIB | SIB5/<br>SIB5bis | SIB5/<br>SIB5bis | SIB5/<br>SIB5bis |

|                   |     |     |     |      |     |                  |                  |                  |
|-------------------|-----|-----|-----|------|-----|------------------|------------------|------------------|
| <b>Frame No.</b>  | 48  | 50  | 52  | 54   | 56  | 58               | 60               | 62               |
| <b>REP-POS</b>    | 24  | 25  | 26  | 27   | 28  | 29               | 30               | 31               |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB7 | MIB | SIB5/<br>SIB5bis | SIB5/<br>SIB5bis | SIB5/<br>SIB5bis |

|                   |     |     |     |       |     |       |       |       |
|-------------------|-----|-----|-----|-------|-----|-------|-------|-------|
| <b>Frame No.</b>  | 64  | 66  | 68  | 70    | 72  | 74    | 76    | 78    |
| <b>REP-POS</b>    | 32  | 33  | 34  | 35    | 36  | 37    | 38    | 39    |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB11 | MIB | SIB11 | SIB11 | SIB11 |

|                   |     |     |     |      |     |       |       |       |
|-------------------|-----|-----|-----|------|-----|-------|-------|-------|
| <b>Frame No.</b>  | 80  | 82  | 84  | 86   | 88  | 90    | 92    | 94    |
| <b>REP-POS</b>    | 40  | 41  | 42  | 43   | 44  | 45    | 46    | 47    |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB7 | MIB | SIB11 | SIB11 | SIB11 |

|                   |     |     |     |       |     |       |     |     |
|-------------------|-----|-----|-----|-------|-----|-------|-----|-----|
| <b>Frame No.</b>  | 96  | 98  | 100 | 102   | 104 | 106   | 108 | 110 |
| <b>REP-POS</b>    | 48  | 49  | 50  | 51    | 52  | 53    | 54  | 55  |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB12 | MIB | SIB12 |     |     |

|                   |     |     |     |      |     |          |          |          |
|-------------------|-----|-----|-----|------|-----|----------|----------|----------|
| <b>Frame No.</b>  | 112 | 114 | 116 | 118  | 120 | 122      | 124      | 126      |
| <b>REP-POS</b>    | 56  | 57  | 58  | 59   | 60  | 61       | 62       | 63       |
| <b>Block Type</b> | MIB | SB1 | SB1 | SIB7 | MIB | SIB11bis | SIB11bis | SIB11bis |

SIB-repeat period (in frame)

**Table 4**

|                        |     |     |      |      |      |      |                  |      |      |       |              |       |       |
|------------------------|-----|-----|------|------|------|------|------------------|------|------|-------|--------------|-------|-------|
| <b>Block Type</b>      | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/<br>SIB5bis | SIB6 | SIB7 | SIB11 | SIB11<br>bis | SIB12 | SIB18 |
| <b>SIB Rep</b>         | 8   | 16  | 128  | 128  | 128  | 128  | 128              | 128  | 32   | 128   | 128          | 128   | 128   |
| <b>Max. No of seg.</b> | 1   | 2   | 1    | 1    | 1    | 1    | 7                | 2    | 1    | 7     | 3            | 2     | 1     |

## 6.1.0a.4.5 SIB schedule for MBMS MBSFN test cases

Contents of Master Information Block in the case where PLMN type is GSM-MAP

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- MIB value tag</li> <li>- Supported PLMN types</li> <li>- PLMN type</li> <li>- PLMN identity</li> <li>- MCC digit</li> <li>- MNC digit</li> <li>- ANSI-41 Core Network information</li> <li>- References to other system information blocks and scheduling blocks</li> <li>- References to other system information blocks</li> <li>- Scheduling information</li> <li>- CHOICE Value tag</li> <li>- Cell Value tag</li> <li>- Scheduling</li> <li>- SEG_COUNT</li> <li>- SIB_REP</li> <li>- SIB_POS</li> <li>- SIB_POS offset info</li> <li>- SIB and SB type</li> <li>- Scheduling information</li> <li>- CHOICE Value tag</li> <li>- Cell Value tag</li> <li>- Scheduling</li> <li>- SEG_COUNT</li> <li>- SIB_REP</li> <li>- SIB_POS</li> <li>- SIB_POS offset info</li> <li>- SIB and SB type</li> <li>- Scheduling information</li> <li>- CHOICE Value tag</li> <li>- Cell Value tag</li> <li>- Scheduling</li> <li>- SEG_COUNT</li> <li>- SIB_REP</li> <li>- SIB_POS</li> <li>- SIB_POS offset info</li> <li>- SIB and SB type</li> </ul> | <p>A valid MIB value tag value as defined in TS 25.331 [34]</p> <p>GSM-MAP</p> <p>Set to the same Mobile Country Codes stored in the test USIM card (clause 8.3.2.2 EF IMSI(IMSI)).</p> <p>Set to the same Mobile Network Codes stored in the test USIM card (clause 8.3.2.2 EF IMSI(IMSI)).</p> <p>Not Present</p> <p>Cell Value Tag</p> <p>A valid Cell value tag value as defined in TS 25.331 [34]</p> <p>1</p> <p>16</p> <p>2</p> <p>Not Present - use default</p> <p>System Information Type 3</p> <p>Cell Value Tag</p> <p>A valid Cell value tag value as defined in TS 25.331 [34]</p> <p>2</p> <p>16</p> <p>4</p> <p>Not Present - use default</p> <p>System Information Type 5</p> <p>Cell Value tag</p> <p>A valid Cell value tag value as defined in TS 25.331 [34]</p> <p>2</p> <p>16</p> <p>10</p> <p>Not Present - use default</p> <p>System Information Type 11</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SIB schedule

| Frame No / SIB_POS | 0   | 2    | 4    | 6    | 8     | 10    | 12    | 14 |
|--------------------|-----|------|------|------|-------|-------|-------|----|
| Block Type         | MIB | SIB3 | SIB5 | SIB5 | SIB11 | SIB11 | SIB11 | -  |

SIB-repeat period (in frame)

| Block Type      | MIB | SIB3 | SIB5 | SIB11 |
|-----------------|-----|------|------|-------|
| SIB Rep         | 16  | 16   | 16   | 16    |
| Max. No of seg. | 1   | 1    | 2    | 3     |

## 6.1.0a.4.6 SIB default schedule for long SIB5/SIB5bis

| Block Type | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/SIB5bis | SIB6 | SIB7 | SIB11 | SIB12 | SIB18 |
|------------|-----|-----|------|------|------|------|--------------|------|------|-------|-------|-------|
| SIB_REP    | 8   | 16  | 64   | 64   | 64   | 64   | 64           | 64   | 16   | 64    | 64    | 64    |
| SEG_COUNT  | 1   | 1   | 1    | 1    | 1    | 1    | 6            | 4    | 1    | 3     | 2     | 1     |

|                           |     |     |            |              |     |              |              |              |
|---------------------------|-----|-----|------------|--------------|-----|--------------|--------------|--------------|
| <b>Frame No / SIB_POS</b> | 0   | 2   | 4          | 6            | 8   | 10           | 12           | 14           |
| <b>Block Type</b>         | MIB | SB1 | SIB7       | SIB6         | MIB | SIB6         | SIB6         | SIB6         |
| <b>Frame No / SIB_POS</b> | 16  | 18  | 20         | 22           | 24  | 26           | 28           | 30           |
| <b>Block Type</b>         | MIB | SB1 | SIB7/SIB3  | SIB1/SIB2    | MIB | SIB12        | SIB12        | SIB5/SIB5bis |
| <b>Frame No / SIB_POS</b> | 32  | 34  | 36         | 38           | 40  | 42           | 44           | 46           |
| <b>Block Type</b>         | MIB | SB1 | SIB7/SIB18 | SIB5/SIB5bis | MIB | SIB5/SIB5bis | SIB5/SIB5bis | SIB5/SIB5bis |
| <b>Frame No / SIB_POS</b> | 48  | 50  | 52         | 54           | 56  | 58           | 60           | 62           |
| <b>Block Type</b>         | MIB | SB1 | SIB7/SIB4  | SIB5/SIB5bis | MIB | SIB11        | SIB11        | SIB11        |

## 6.1.0a.4.7 SIB schedule for EAB test cases

|                   |     |     |      |      |      |      |              |      |      |       |       |       |       |
|-------------------|-----|-----|------|------|------|------|--------------|------|------|-------|-------|-------|-------|
| <b>Block Type</b> | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/SIB5bis | SIB6 | SIB7 | SIB11 | SIB12 | SIB18 | SIB21 |
| <b>SIB_REP</b>    | 8   | 16  | 64   | 64   | 64   | 64   | 64           | 64   | 16   | 64    | 64    | 64    | 64    |
| <b>SEG_COUNT</b>  | 1   | 1   | 1    | 1    | 1    | 1    | 4            | 4    | 1    | 3     | 3     | 1     | 1     |

|                           |     |     |            |              |     |              |              |              |
|---------------------------|-----|-----|------------|--------------|-----|--------------|--------------|--------------|
| <b>Frame No / SIB_POS</b> | 0   | 2   | 4          | 6            | 8   | 10           | 12           | 14           |
| <b>Block Type</b>         | MIB | SB1 | SIB7       | SIB6         | MIB | SIB6         | SIB6         | SIB6         |
| <b>Frame No / SIB_POS</b> | 16  | 18  | 20         | 22           | 24  | 26           | 28           | 30           |
| <b>Block Type</b>         | MIB | SB1 | SIB7/SIB3  | SIB1/SIB2    | MIB | SIB12        | SIB12        | SIB12        |
| <b>Frame No / SIB_POS</b> | 32  | 34  | 36         | 38           | 40  | 42           | 44           | 46           |
| <b>Block Type</b>         | MIB | SB1 | SIB7/SIB18 | SIB5/SIB5bis | MIB | SIB5/SIB5bis | SIB5/SIB5bis | SIB5/SIB5bis |
| <b>Frame No / SIB_POS</b> | 48  | 50  | 52         | 54           | 56  | 58           | 60           | 62           |
| <b>Block Type</b>         | MIB | SB1 | SIB7/SIB4  | SIB21        | MIB | SIB11        | SIB11        | SIB11        |

## 6.1.0a.4.8 SIB schedule for test cases that require SIB22

|                   |     |     |      |      |      |      |              |      |      |       |       |       |       |
|-------------------|-----|-----|------|------|------|------|--------------|------|------|-------|-------|-------|-------|
| <b>Block Type</b> | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/SIB5bis | SIB6 | SIB7 | SIB11 | SIB12 | SIB18 | SIB22 |
| <b>SIB_REP</b>    | 8   | 16  | 64   | 64   | 64   | 64   | 64           | 64   | 16   | 64    | 64    | 64    | 64    |
| <b>SEG_COUNT</b>  | 1   | 1   | 1    | 1    | 1    | 1    | 6            | 4    | 1    | 3     | 1     | 1     | 1     |

|                           |     |     |            |              |     |              |              |              |
|---------------------------|-----|-----|------------|--------------|-----|--------------|--------------|--------------|
| <b>Frame No / SIB_POS</b> | 0   | 2   | 4          | 6            | 8   | 10           | 12           | 14           |
| <b>Block Type</b>         | MIB | SB1 | SIB7       | SIB6         | MIB | SIB6         | SIB6         | SIB6         |
| <b>Frame No / SIB_POS</b> | 16  | 18  | 20         | 22           | 24  | 26           | 28           | 30           |
| <b>Block Type</b>         | MIB | SB1 | SIB7/SIB3  | SIB1/SIB2    | MIB | SIB12        | SIB5/SIB5bis | SIB5/SIB5bis |
| <b>Frame No / SIB_POS</b> | 32  | 34  | 36         | 38           | 40  | 42           | 44           | 46           |
| <b>Block Type</b>         | MIB | SB1 | SIB7/SIB18 | SIB5/SIB5bis | MIB | SIB5/SIB5bis | SIB5/SIB5bis | SIB5/SIB5bis |
| <b>Frame No / SIB_POS</b> | 48  | 50  | 52         | 54           | 56  | 58           | 60           | 62           |
| <b>Block Type</b>         | MIB | SB1 | SIB7/SIB4  | SIB22        | MIB | SIB11        | SIB11        | SIB11        |

## 6.1.0a.4.9 SIB schedule for RAN Assisted WLAN interworking test cases

|              |     |     |      |      |      |      |              |      |      |       |       |       |       |
|--------------|-----|-----|------|------|------|------|--------------|------|------|-------|-------|-------|-------|
| <b>Block</b> | MIB | SB1 | SIB1 | SIB2 | SIB3 | SIB4 | SIB5/SIB5bis | SIB6 | SIB7 | SIB11 | SIB12 | SIB18 | SIB23 |
|--------------|-----|-----|------|------|------|------|--------------|------|------|-------|-------|-------|-------|

| Type      |   |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------|---|----|----|----|----|----|----|----|----|----|----|----|----|
| SIB_REP   | 8 | 16 | 64 | 64 | 64 | 64 | 64 | 64 | 16 | 64 | 64 | 64 | 64 |
| SEG_COUNT | 1 | 1  | 1  | 1  | 1  | 1  | 6  | 4  | 1  | 3  | 1  | 1  | 1  |

| Frame No / SIB_POS | 0   | 2   | 4          | 6            | 8   | 10           | 12           | 14           |
|--------------------|-----|-----|------------|--------------|-----|--------------|--------------|--------------|
| Block Type         | MIB | SB1 | SIB7       | SIB6         | MIB | SIB6         | SIB6         | SIB6         |
| Frame No / SIB_POS | 16  | 18  | 20         | 22           | 24  | 26           | 28           | 30           |
| Block Type         | MIB | SB1 | SIB7/SIB3  | SIB1/SIB2    | MIB | SIB12        | SIB5/SIB5bis | SIB5/SIB5bis |
| Frame No / SIB_POS | 32  | 34  | 36         | 38           | 40  | 42           | 44           | 46           |
| Block Type         | MIB | SB1 | SIB7/SIB18 | SIB5/SIB5bis | MIB | SIB5/SIB5bis | SIB5/SIB5bis | SIB5/SIB5bis |
| Frame No / SIB_POS | 48  | 50  | 52         | 54           | 56  | 58           | 60           | 62           |
| Block Type         | MIB | SB1 | SIB7/SIB4  | SIB23        | MIB | SIB11        | SIB11        | SIB11        |

## 6.1.0b Default System Information Block Messages

Contents of System Information Block type 1 (supported PLMN type is GSM-MAP)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- CN common GSM-MAP NAS system information</li> <li>- GSM-MAP NAS system information</li> <li>- CN domain system information</li> <li>- CN domain identity</li> <li>- CHOICE CN Type</li> <li>- CN domain specific NAS system information</li> <li>- GSM-MAP NAS system information</li> <li>- CN domain specific DRX cycle length coefficient</li> <li>- CN domain identity</li> <li>- CHOICE CN Type</li> <li>- CN domain specific NAS system information</li> <li>- GSM-MAP NAS system information</li> <li>- CN domain specific DRX cycle length coefficient</li> </ul> | A1     | 00 01H<br><br>PS<br>GSM-MAP<br><br>05 00H<br>7<br>CS<br>GSM-MAP<br><br>1E 01H<br>7                                                                                                                                                                                                                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>- CN common GSM-MAP NAS system information</li> <li>- GSM-MAP NAS system information</li> <li>- CN domain system information</li> <li>- CN domain identity</li> <li>- CHOICE CN Type</li> <li>- CN domain specific NAS system information</li> <li>- GSM-MAP NAS system information</li> <li>- CN domain specific DRX cycle length coefficient</li> <li>- CN domain identity</li> <li>- CHOICE CN Type</li> <li>- CN domain specific NAS system information</li> <li>- GSM-MAP NAS system information</li> <li>- CN domain specific DRX cycle length coefficient</li> </ul> | A2     | 00 80H (see note)<br><br>PS<br>GSM-MAP<br><br>00 00H (see note)<br>7<br>CS<br>GSM-MAP<br><br>1E 01H<br>7                                                                                                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- UE Timers and constants in idle mode</li> <li>- T300</li> <li>- N300</li> <li>- T312</li> <li>- N312</li> <li>- UE Timers and constants in connected mode</li> <li>- T301</li> <li>- N301</li> <li>- T302</li> <li>- N302</li> <li>- T304</li> <li>- N304</li> <li>- T305</li> <li>- T307</li> <li>- T308</li> <li>- T309</li> </ul>                                                                                                                                                                                                                                      | A1, A2 | 4 000 milliseconds<br>3<br>10 seconds<br>1<br><br>Not Present (2 000 milliseconds: default value)<br>Not Present (2: default value)<br>Not Present (4 000 milliseconds: default value)<br>Not Present (3: default value)<br>Not Present (2 000 milliseconds: default value)<br>Not Present (2: default value)<br>Not Present (30 minutes: default value)<br>Not Present (30 seconds: default value)<br>Not Present (160 milliseconds: default value)<br>Not Present (5 seconds: default value) |

|                                                                                 |                                                 |
|---------------------------------------------------------------------------------|-------------------------------------------------|
| - T310                                                                          | Not Present (160 milliseconds: default value)   |
| - N310                                                                          | Not Present (4: default value)                  |
| - T311                                                                          | Not Present (2 000 milliseconds: default value) |
| - T312                                                                          | Not Present (1 seconds: default value)          |
| - N312                                                                          | Not Present (1: default value)                  |
| - T313                                                                          | Not Present (3 seconds: default value)          |
| - N313                                                                          | Not Present (20: default value)                 |
| - T314                                                                          | Not Present (12 seconds: default value)         |
| - T315                                                                          | Not Present (180 seconds: default value)        |
| - N315                                                                          | Not Present (1: default value)                  |
| - T316                                                                          | Not Present (30 seconds: default value)         |
| - T317                                                                          | Not Present (infinity: default value)           |
| NOTE: For Inter-RAT test cases GERAN and UTRAN cells use different LAC and RAC. |                                                 |

| Condition | Explanation                          |
|-----------|--------------------------------------|
| A1        | UTRAN cell environment               |
| A2        | UTRAN/GSM inter-RAT cell environment |

## Contents of System Information Block type 2

|                     |                                        |
|---------------------|----------------------------------------|
| - URA identity list | <i>Only 1 URA identity broadcasted</i> |
| - URA identity      | 0000 0000 0000 0001B                   |

## Contents of System Information Block type 3 (FDD)

| Information Element                              | Value/remark                        | Version |
|--------------------------------------------------|-------------------------------------|---------|
| - SIB4 indicator                                 | TRUE                                |         |
| - Cell identity                                  | 0000 0000 0000 0000 0000 0000 0001B |         |
| - Cell selection and re-selection info           |                                     |         |
| - Mapping info                                   | Not Present                         |         |
| - Cell selection and reselection quality measure | CPICH RSCP                          |         |
| - CHOICE mode                                    | FDD                                 |         |
| - Sintrasearch                                   | 8 (16 dB)                           |         |
| - Sintersearch                                   | 8 (16 dB)                           |         |
| - SsearchHCS                                     | Not Present                         |         |
| - RAT List                                       | This parameter is configurable      |         |
| - RAT identifier                                 | GSM                                 |         |
| - Ssearch,RAT                                    | -16 (-32 dB)                        |         |
| - SHCS,RAT                                       | Not Present                         |         |
| - Slimit,SearchRAT                               | 0 (0dB)                             |         |
| - Qqualmin                                       | Reference to table 6.1.1            |         |
| - Qrxlevmin                                      | Reference to table 6.1.1            |         |
| - Qhyst1s                                        | 1 (2 dB)                            |         |
| - Qhyst2s                                        | Not Present                         |         |
| - Treselections                                  | 0 seconds                           |         |
| - HCS Serving cell information                   | Not Present                         |         |
| - Maximum allowed UL TX power                    | Reference to table 6.1.1            |         |
| - Cell Access Restriction                        |                                     |         |
| - Cell barred                                    | Not barred                          |         |
| - Intra-frequency cell re-selection indicator    | Not present                         |         |
| - T <sub>barred</sub>                            | Not present                         |         |
| - Cell Reserved for operator use                 | Not reserved                        |         |
| - Cell Reservation Extension                     | Not reserved                        |         |
| - Access Class Barred List                       |                                     |         |
| - Access Class Barred0                           | Not barred                          |         |
| - Access Class Barred1                           | Not barred                          |         |
| - Access Class Barred2                           | Not barred                          |         |
| - Access Class Barred3                           | Not barred                          |         |
| - Access Class Barred4                           | Not barred                          |         |
| - Access Class Barred5                           | Not barred                          |         |
| - Access Class Barred6                           | Not barred                          |         |
| - Access Class Barred7                           | Not barred                          |         |
| - Access Class Barred8                           | Not barred                          |         |
| - Access Class Barred9                           | Not barred                          |         |
| - Access Class Barred10                          | Not barred                          |         |



|                                                                    |             |       |
|--------------------------------------------------------------------|-------------|-------|
| - Access Class Barred11                                            | Not barred  |       |
| - Access Class Barred12                                            | Not barred  |       |
| - Access Class Barred13                                            | Not barred  |       |
| - Access Class Barred14                                            | Not barred  |       |
| - Access Class Barred15                                            | Not barred  |       |
| - Domain Specific Access Restriction Parameters For PLMN Of MIB    | Not present | REL-6 |
| - Domain Specific Access Restriction For Shared Network            | Not present | REL-6 |
| - Paging Permission with Access Control Parameters For PLMN Of MIB | Not present | REL-8 |
| - Paging Permission with Access Control For Shared Network         | Not present | REL-8 |
| - CSG Identity                                                     | Not present | REL-8 |
| - CSG PSC Split Information                                        | Not present | REL-8 |
| - IMS Emergency Support Indicator                                  | Not present | REL-9 |

Contents of System Information Block type 3 (3.84 Mcps TDD, 1.28 Mcps TDD and 7.68 Mcps TDD)

| Information Element                                             | Value/remark                        | Version |
|-----------------------------------------------------------------|-------------------------------------|---------|
| - SIB4 Indicator                                                | TRUE                                |         |
| - Cell identity                                                 | 0000 0000 0000 0000 0000 0000 0001B |         |
| - Cell selection and re-selection info                          |                                     |         |
| - Mapping info                                                  | Not present                         |         |
| - Cell selection and reselection quality measure                | (no data)                           |         |
| - CHOICE mode                                                   | TDD                                 |         |
| - Sintrasearch                                                  | 10 (21 dB)                          |         |
| - Sintersearch                                                  | 10 (21 dB)                          |         |
| - SsearchHCS                                                    | Not present                         |         |
| - RAT List                                                      | This parameter is configurable      |         |
| - RAT identifier                                                | GSM                                 |         |
| - Ssearch,RAT                                                   | -32 (-63 dB)                        |         |
| - SHCS,RAT                                                      | Not present                         |         |
| - Slimit,SsearchRAT                                             | -1 (-1 dB)                          |         |
| - Qrxlevmin                                                     | Reference to table 6.1.6a           |         |
| - Qhyst1s                                                       | 0 (0 dB)                            |         |
| - Treselections                                                 | 0 seconds                           |         |
| - HCS Serving cell information                                  | Not present                         |         |
| - Maximum allowed UL TX power                                   | Reference to table 6.1.6a           |         |
| - Cell Access Restriction                                       |                                     |         |
| - Cell barred                                                   | Not barred                          |         |
| - Intra-frequency cell re-selection indicator                   | Not present                         |         |
| - $T_{\text{barred}}$                                           | Not present                         |         |
| - Cell Reserved for operator use                                | Not reserved                        |         |
| - Cell Reservation Extension                                    | Not reserved                        |         |
| - Access Class Barred List                                      |                                     |         |
| - Access Class Barred0                                          | Not barred                          |         |
| - Access Class Barred1                                          | Not barred                          |         |
| - Access Class Barred2                                          | Not barred                          |         |
| - Access Class Barred3                                          | Not barred                          |         |
| - Access Class Barred4                                          | Not barred                          |         |
| - Access Class Barred5                                          | Not barred                          |         |
| - Access Class Barred6                                          | Not barred                          |         |
| - Access Class Barred7                                          | Not barred                          |         |
| - Access Class Barred8                                          | Not barred                          |         |
| - Access Class Barred9                                          | Not barred                          |         |
| - Access Class Barred10                                         | Not barred                          |         |
| - Access Class Barred11                                         | Not barred                          |         |
| - Access Class Barred12                                         | Not barred                          |         |
| - Access Class Barred13                                         | Not barred                          |         |
| - Access Class Barred14                                         | Not barred                          |         |
| - Access Class Barred15                                         | Not barred                          |         |
| - Domain Specific Access Restriction Parameters For PLMN Of MIB | Not present                         | REL-6   |
| - Domain Specific Access Restriction For Shared Network         | Not present                         | REL-6   |

|                                                                    |             |       |
|--------------------------------------------------------------------|-------------|-------|
| - Paging Permission with Access Control Parameters For PLMN Of MIB | Not present | REL-8 |
| - Paging Permission with Access Control For Shared Network         | Not present | REL-8 |
| - CSG Identity                                                     | Not present | REL-8 |
| - CSG PSC Split Information                                        | Not present | REL-8 |

## Contents of System Information Block type 4 in connected mode (FDD)

|                                                  |                                     |
|--------------------------------------------------|-------------------------------------|
| - Cell identity                                  | 0000 0000 0000 0000 0000 0000 0001B |
| - Cell selection and re-selection info           |                                     |
| - Mapping Info                                   | Not present                         |
| - Cell selection and reselection quality measure | CPICH RSCP                          |
| - CHOICE mode                                    | FDD                                 |
| - Sintrasearch                                   | 8 (16 dB)                           |
| - Sintersearch                                   | 8 (16 dB)                           |
| - SsearchHCS                                     | Not present                         |
| - RAT List                                       | This parameter is configurable      |
| - RAT identifier                                 | GSM                                 |
| - Ssearch,RAT                                    | -16 (-32 dB)                        |
| - SHCS,RAT                                       | Not Present                         |
| - $S_{limit,SearchRAT}$                          | 0 (0dB)                             |
| - Qqualmin                                       | Reference to table 6.1.1            |
| - Qrxlevmin                                      | Reference to table 6.1.1            |
| - Qhyst1s                                        | 1 (2 dB)                            |
| - Qhyst2s                                        | Not Present                         |
| - Treselections                                  | 0 seconds                           |
| - HCS Serving cell information                   | Not Present                         |
| - Maximum allowed UL TX power                    | Reference to table 6.1.1            |
| - Cell Access Restriction                        |                                     |
| - Cell barred                                    | Not barred                          |
| - Intra-frequency cell re-selection indicator    | Not present                         |
| - $T_{barred}$                                   | Not present                         |
| - Cell Reserved for operator use                 | Not reserved                        |
| - Cell Reservation Extension                     | Not reserved                        |
| - Access Class Barred List                       | Not present                         |

## Contents of System Information Block type 4 in connected mode (similar to SIB type3) (3.84 Mcps TDD, 1.28 Mcps TDD and 7.68 Mcps TDD)

|                                                  |                                     |
|--------------------------------------------------|-------------------------------------|
| - Cell identity                                  | 0000 0000 0000 0000 0000 0000 0001B |
| - Cell selection and re-selection info           |                                     |
| - Mapping info                                   | Not Present                         |
| - Cell selection and reselection quality measure | CPICH RSCP                          |
| - CHOICE mode                                    | TDD                                 |
| - Sintrasearch                                   | 10 (21 dB)                          |
| - Sintersearch                                   | 10 (21 dB)                          |
| - SsearchHCS                                     | Not present                         |
| - RAT List                                       | This parameter is configurable      |
| - RAT identifier                                 | GSM                                 |
| - Ssearch,RAT                                    | -32 (-63 dB)                        |
| - SHCS,RAT                                       | Not present                         |
| - $S_{limit,SearchRAT}$                          | -1 (-1 dB)                          |
| - Qrxlevmin                                      | Reference to table 6.1.6a           |
| - Qhyst1s                                        | 0 dB                                |
| - Treselections                                  | 0 seconds                           |
| - HCS Serving cell information                   | Not present                         |
| - Maximum allowed UL TX power                    | Reference to table 6.1.6a           |
| - Cell Access Restriction                        |                                     |
| - Cell barred                                    | Not barred                          |
| - Intra-frequency cell re-selection indicator    | Not present                         |
| - $T_{barred}$                                   | Not present                         |
| - Cell Reserved for operator use                 | Not reserved                        |
| - Cell Reservation Extension                     | Not reserved                        |
| - Access Class Barred List                       | Not present                         |

## Contents of System Information Block type 5 (FDD)

| Information Element                         | Conditions | Value/remark              | Version |
|---------------------------------------------|------------|---------------------------|---------|
| - SIB6 indicator                            |            | TRUE                      | REL-11  |
| - SIB22 indicator                           |            | FALSE                     |         |
| - PICH Power offset                         |            | -5 dB                     |         |
| - CHOICE Mode                               |            | FDD                       |         |
| - AICH Power offset                         |            | -5 dB                     |         |
| - Primary CCPCH info                        |            | Not present               |         |
| - PRACH system information list             |            |                           |         |
| - PRACH system information                  |            |                           |         |
| - PRACH info                                |            |                           |         |
| - CHOICE mode                               |            | FDD                       |         |
| - Available Signature                       |            | '0000 0000 1111 1111'B    |         |
| - Available SF                              |            | 64                        |         |
| - Preamble scrambling code number           |            | 0                         |         |
| - Puncturing Limit                          |            | 1.00                      |         |
| - Available Sub Channel number              |            | '1111 1111 1111'B         |         |
| - Transport channel Identity                |            | 15                        |         |
| - RACH TFS                                  |            |                           |         |
| - CHOICE Transport channel type             |            | Common transport channels |         |
| - Dynamic Transport format information      |            |                           |         |
| - RLC size                                  |            | 168                       |         |
| - Number of TB and TTI List                 |            |                           |         |
| - Number of Transport blocks                |            | 1                         |         |
| - CHOICE Mode                               |            | FDD                       |         |
| - CHOICE Logical channel List               |            | Configured                |         |
| - RLC size                                  |            | 360                       |         |
| - Number of TB and TTI List                 |            |                           |         |
| - Number of Transport blocks                |            | 1                         |         |
| - CHOICE Mode                               |            | FDD                       |         |
| - CHOICE Logical channel List               |            | Configured                |         |
| - Semi-static Transport Format information  |            |                           |         |
| - Transmission time interval                |            | 20 ms                     | Rel6    |
| - Type of channel coding                    |            | Convolutional             |         |
| - Coding Rate                               |            | 1/2                       |         |
| - Rate matching attribute                   |            | 150                       |         |
| - CRC size                                  |            | 16                        |         |
| - Additional RACH TFS for CCCH              |            |                           |         |
| - RLC size                                  |            | 240                       |         |
| - Number of Transport blocks                |            | 1                         |         |
| - RACH TFCS                                 |            |                           |         |
| - CHOICE TFCI signalling                    |            | Normal                    |         |
| - TFCI Field 1 information                  |            |                           |         |
| - CHOICE TFCS representation                |            | Complete reconfiguration  |         |
| - TFCS complete reconfiguration information |            |                           |         |
| - CHOICE CTFC Size                          |            | 2 bit                     |         |
| - CTFC information                          |            | 0                         |         |
| - Power offset information                  |            |                           |         |
| - CHOICE Gain Factors                       |            | Computed Gain Factor      |         |
| - Reference TFC ID                          |            | 0                         |         |
| - CHOICE Mode                               |            | FDD                       |         |
| - Power offset Pp-m                         |            | 0 dB                      |         |
| - CTFC information                          |            | 1                         |         |
| - Power offset information                  |            |                           |         |
| - CHOICE Gain Factors                       |            | Signalled Gain Factor     |         |
| - CHOICE mode                               |            | FDD                       |         |
| - Gain factor $\beta_c$                     |            | 11                        |         |
| - Gain factor $\beta_d$                     |            | 15                        |         |
| - Reference TFC ID                          |            | 0                         |         |
| - CHOICE Mode                               |            | FDD                       |         |
| - Power offset Pp-m                         |            | 0 dB                      |         |
| - Additional RACH TFCS for CCCH             |            |                           |         |
| - Power offset information                  |            |                           | Rel-6   |
| - CHOICE Gain Factors                       |            | Signalled Gain Factor     |         |
| - CHOICE mode                               |            | FDD                       |         |
| - Gain factor $\beta_c$                     |            | 11                        |         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Gain factor <math>\beta_d</math></li> <li>- Reference TFC ID</li> <li>- CHOICE Mode</li> <li>- Power offset Pp-m</li> <li>- PRACH partitioning</li> <li>- Access Service Class</li> <li>- ASC Setting</li> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                          | 15<br>0<br>FDD<br>0 dB<br><br>Not Present<br><br>FDD<br>0 (ASC#1)<br>7 (ASC#1)<br>'1111'B<br>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.<br>Not Present                                                        |
| <ul style="list-style-type: none"> <li>- ASC Setting</li> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FDD<br>0 (ASC#3)<br>7 (ASC#3)<br>'1111'B<br>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.<br>Not Present                                                                                                         |
| <ul style="list-style-type: none"> <li>- ASC Setting</li> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FDD<br>0 (ASC#5)<br>7 (ASC#5)<br>'1111'B<br>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.<br>Not Present                                                                                                         |
| <ul style="list-style-type: none"> <li>- ASC Setting</li> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FDD<br>0 (ASC#7)<br>7 (ASC#7)<br>'1111'B<br>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.                                                                                                                        |
| <ul style="list-style-type: none"> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- AC-to-ASC mapping table</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- CHOICE mode</li> <li>- Primary CPICH TX power</li> <li>- Constant value</li> <li>- PRACH power offset</li> <li>- Power Ramp Step</li> <li>- Preamble Retrans Max</li> <li>- RACH transmission parameters</li> <li>- Mmax</li> <li>- NB01min</li> <li>- NB01max</li> <li>- AICH info</li> <li>- Channelisation code</li> </ul> | 0.9 (for ASC#2)<br>0.9 (for ASC#3)<br>0.9 (for ASC#4)<br>0.9 (for ASC#5)<br>0.9 (for ASC#6)<br>0.9 (for ASC#7)<br><br>6 (AC0-9)<br>5 (AC10)<br>4 (AC11)<br>3 (AC12)<br>2 (AC13)<br>1 (AC14)<br>0 (AC15)<br>FDD<br>31<br>-10<br><br>3dB<br>4<br><br>2<br>3 slot<br>10 slot<br><br>3 |

|                                             |             |                                                        |  |
|---------------------------------------------|-------------|--------------------------------------------------------|--|
| - STTD indicator                            |             | FALSE                                                  |  |
| - AICH transmission timing                  |             | 0                                                      |  |
| - Secondary CCPCH system information        |             |                                                        |  |
| - Secondary CCPCH info                      |             |                                                        |  |
| - CHOICE mode                               |             | FDD                                                    |  |
| - Secondary scrambling code                 |             | Not Present                                            |  |
| - STTD indicator                            |             | FALSE                                                  |  |
| - Spreading factor                          |             | 64                                                     |  |
| - Code number                               |             | 1                                                      |  |
| - Pilot symbol existence                    |             | FALSE                                                  |  |
| - TFCI existence                            |             | TRUE (default value)                                   |  |
| - Fixed or Flexible position                |             | Flexible (default value)                               |  |
| - Timing offset                             |             | Not Present                                            |  |
|                                             |             | Absence of this IE is equivalent to default value 0    |  |
| - TFCS                                      |             | (This IE is repeated for TFC number for PCH and FACH.) |  |
|                                             |             | Normal                                                 |  |
| - CHOICE TFCI signalling                    |             |                                                        |  |
| - TFCI Field 1 information                  |             |                                                        |  |
| - CHOICE TFCS representation                |             |                                                        |  |
| - TFCS complete reconfiguration information |             | Complete reconfiguration                               |  |
| - CHOICE CTFC Size                          | M2          | 6 bit                                                  |  |
| - CHOICE CTFC Size                          | A1,A2,A3,M1 | 4 bit                                                  |  |
| - CTFC information                          |             | 0                                                      |  |
| - Power offset information                  |             | Not Present                                            |  |
| - CTFC information                          |             | 1                                                      |  |
| - Power offset information                  |             | Not Present                                            |  |
| - CTFC information                          |             | 2                                                      |  |
| - Power offset information                  |             | Not Present                                            |  |
| - CTFC information                          |             | 3                                                      |  |
| - Power offset information                  |             | Not Present                                            |  |
| - CTFC information                          |             | 4                                                      |  |
| - Power offset information                  |             | Not Present                                            |  |
| - CTFC information                          | A1,A2,A3,M1 | 5                                                      |  |
| - Power offset information                  |             | Not Present                                            |  |
| - CTFC information                          |             | 6                                                      |  |
| - Power offset information                  |             | Not Present                                            |  |
| - CTFC information                          |             | 8                                                      |  |
| - Power offset information                  |             | Not Present                                            |  |
| - CTFC information                          | M2          | 12                                                     |  |
| - Power offset information                  | M2          | Not Present                                            |  |
| - CTFC information                          | M2          | 13                                                     |  |
| - Power offset information                  | M2          | Not Present                                            |  |
| - CTFC information                          | M2          | 14                                                     |  |
| - Power offset information                  | M2          | Not Present                                            |  |
| - CTFC information                          | M2          | 15                                                     |  |
| - Power offset information                  | M2          | Not Present                                            |  |
| - CTFC information                          | M2          | 16                                                     |  |
| - Power offset information                  | M2          | Not Present                                            |  |
| - CTFC information                          | M2          | 18                                                     |  |
| - Power offset information                  | M2          | Not Present                                            |  |
| - FACH/PCH information                      |             |                                                        |  |
| - TFS                                       |             | (PCH)                                                  |  |
| - CHOICE Transport channel type             |             | Common transport channels                              |  |
| - Dynamic Transport format information      |             |                                                        |  |
| - RLC Size                                  |             | 240                                                    |  |
| - Number of TB and TTI List                 |             |                                                        |  |
| - Number of Transport blocks                |             | 0                                                      |  |
| - Number of Transport blocks                |             | 1                                                      |  |
| - CHOICE Logical channel List               |             | ALL                                                    |  |
| - Semi-static Transport Format information  |             |                                                        |  |
| - Transmission time interval                |             | 10 ms                                                  |  |
| - Type of channel coding                    |             | Convolutional                                          |  |
| - Coding Rate                               |             | 1/2                                                    |  |
| - Rate matching attribute                   |             | 230                                                    |  |
| - CRC size                                  |             | 16 bit                                                 |  |
| - Transport channel Identity                |             | 12 (for PCH)                                           |  |
| - CTCH indicator                            |             | FALSE                                                  |  |
| - TFS                                       |             | (FACH)                                                 |  |

|                                                |    |                                                            |       |
|------------------------------------------------|----|------------------------------------------------------------|-------|
| - CHOICE Transport channel type                |    | Common transport channels                                  |       |
| - Dynamic Transport format information         |    |                                                            |       |
| - RLC Size                                     |    | 168                                                        |       |
| - Number of TB and TTI List                    |    |                                                            |       |
| - Number of Transport blocks                   |    | 0                                                          |       |
| - Number of Transport blocks                   |    | 1                                                          |       |
| - Number of Transport blocks                   |    | 2                                                          |       |
| - CHOICE Logical channel List                  |    | ALL                                                        |       |
| - Semi-static Transport Format information     |    |                                                            |       |
| - Transmission time interval                   |    | 10 ms                                                      |       |
| - Type of channel coding                       |    | Convolutional                                              |       |
| - Coding Rate                                  |    | 1/2                                                        |       |
| - Rate matching attribute                      |    | 220                                                        |       |
| - CRC size                                     |    | 16 bit                                                     |       |
| - Transport channel Identity                   |    | 13 (for FACH)                                              |       |
| - CTCH indicator                               |    | FALSE                                                      |       |
| - TFS                                          |    | (FACH)                                                     |       |
| - CHOICE Transport channel type                |    | Common transport channels                                  |       |
| - Dynamic Transport format information         |    |                                                            |       |
| - RLC Size                                     |    | 360                                                        |       |
| - Number of TB and TTI List                    |    |                                                            |       |
| - Number of Transport blocks                   |    | 0                                                          |       |
| - Number of Transport blocks                   |    | 1                                                          |       |
| - CHOICE Logical channel List                  |    | ALL                                                        |       |
| - Semi-static Transport Format information     |    |                                                            |       |
| - Transmission time interval                   |    | 10 ms                                                      |       |
| - Type of channel coding                       |    | Turbo                                                      |       |
| - Rate matching attribute                      |    | 130                                                        |       |
| - CRC size                                     |    | 16bit                                                      |       |
| - Transport channel Identity                   |    | 14 (for FACH)                                              |       |
| - TFS                                          |    | (FACH)                                                     |       |
| - CHOICE Transport channel type                |    | Common transport channels                                  |       |
| - Dynamic Transport format information         |    |                                                            |       |
| - RLC Size                                     |    | 160                                                        |       |
| - Number of TB and TTI List                    |    |                                                            |       |
| - Number of Transport blocks                   |    | 0                                                          |       |
| - Number of Transport blocks                   |    | 1                                                          |       |
| - CHOICE Logical channel List                  |    | ALL                                                        |       |
| - Semi-static Transport Format information     |    |                                                            |       |
| - Transmission time interval                   |    | 20 ms                                                      |       |
| - Type of channel coding                       |    | Convolutional                                              |       |
| - Coding Rate                                  |    | 1/3                                                        |       |
| - Rate matching attribute                      |    | 225                                                        |       |
| - CRC size                                     |    | 16bit                                                      |       |
| - Transport channel Identity                   |    | 16 (for FACH)                                              |       |
| - CTCH indicator                               |    | FALSE                                                      |       |
| - PICH info                                    |    |                                                            |       |
| - CHOICE mode                                  |    | FDD                                                        |       |
| - Channelisation code                          |    | 2                                                          |       |
| - Number of PI per frame                       |    | 18                                                         |       |
| - STTD indicator                               |    | FALSE                                                      |       |
| - MCCH configuration information               | M1 | Not Present                                                | Rel-6 |
| - MCCH configuration information               | M2 |                                                            | Rel-6 |
| - Access Info Period coefficient               |    | Reference to clause 11.1.1 "MCCH configuration parameters" |       |
| - Repetition Period coefficient                |    | Reference to clause 11.1.1 "MCCH configuration parameters" |       |
| - Modification period coefficient              |    | Reference to clause 11.1.1 "MCCH configuration parameters" |       |
| - RLC info                                     |    |                                                            |       |
| - DL UM RLC LI size                            |    | 7                                                          |       |
| - DL Duplication Avoidance and Reordering info |    | Not Present                                                |       |
| - DL Out of sequence delivery info             |    |                                                            |       |
| - Timer_OSD                                    |    | Not Present                                                |       |
| - Window size OSD                              |    | 48                                                         |       |
| - TCTF presence                                |    | Not Present                                                |       |
| - CBS DRX Level 1 information                  |    | Not Present                                                |       |
| - Frequency Band Indicator                     | A1 | Not Present                                                |       |

|                                                |    |                                                                  |       |
|------------------------------------------------|----|------------------------------------------------------------------|-------|
| - Frequency Band Indicator 2                   |    | Not Present                                                      |       |
| - Frequency Band Indicator 3                   |    | Not Present                                                      |       |
| - Frequency Band Indicator                     | A2 | FDD Band under test                                              |       |
| - Frequency Band Indicator 2                   |    | Not Present                                                      |       |
| - Frequency Band Indicator 3                   |    | Not Present                                                      |       |
| - Frequency Band Indicator                     | A3 | Extension indicator                                              |       |
| - Frequency Band Indicator 2                   |    | FDD Band under test                                              |       |
| - Frequency Band Indicator 3                   |    | Not Present                                                      |       |
| - Frequency Band Indicator                     | A4 | Extension indicator                                              |       |
| - Frequency Band Indicator 2                   |    | Extension indicator                                              |       |
| - Frequency Band Indicator 3                   |    | FDD Band under test                                              |       |
| - Secondary CCPCH system information MBMS      | M2 | Not Present                                                      | Rel-6 |
| - Secondary CCPCH system information MBMS      | M1 |                                                                  | Rel-6 |
| - Secondary CCPCH info MBMS                    |    |                                                                  |       |
| - CHOICE Mode                                  |    | FDD                                                              |       |
| - Secondary scrambling code                    |    | Not Present                                                      |       |
| - STTD indicator                               |    | FALSE                                                            |       |
| - Spreading factor                             |    | Reference to clause 5.5.1.4                                      |       |
|                                                |    | "Downlink physical channels code allocation for MBMS test cases" |       |
| - Code number                                  |    | Reference to clause 5.5.1.4                                      |       |
|                                                |    | "Downlink physical channels code allocation for MBMS test cases" |       |
| - Timing Offset                                |    | Set to (Cell No, – 21) * 9 for MBMS                              |       |
|                                                |    | Cell Nos 21-28. (actual value = IE value * 256 chips)            |       |
| - TFCS                                         |    |                                                                  |       |
| - CHOICE TFCI signalling                       |    | Normal                                                           |       |
| - TFCI Field 1 information                     |    |                                                                  |       |
| - CHOICE TFCS representation                   |    | Complete reconfiguration                                         |       |
| - TFCS complete reconfiguration information    |    |                                                                  |       |
| - CHOICE CTFC Size                             |    | 2 bit                                                            |       |
| - CTFC information                             |    | 0                                                                |       |
| - Power offset information                     |    | Not Present                                                      |       |
| - CTFC information                             |    | 1                                                                |       |
| - Power offset information                     |    | Not Present                                                      |       |
| - FACH carrying MCCH                           |    |                                                                  |       |
| - TFS                                          |    |                                                                  |       |
| - CHOICE Transport channel type                |    | Common transport channels                                        |       |
| - Dynamic Transport format information         |    |                                                                  |       |
| - RLC Size                                     |    | 160                                                              |       |
| - Number of TB and TTI List                    |    |                                                                  |       |
| - Number of Transport blocks                   |    | 0                                                                |       |
| - Number of Transport blocks                   |    | 1                                                                |       |
| - CHOICE Logical channel List                  |    | ALL                                                              |       |
| - Semi-static Transport Format information     |    |                                                                  |       |
| - Transmission time interval                   |    | 20 ms                                                            |       |
| - Type of channel coding                       |    | Convolutional                                                    |       |
| - Coding Rate                                  |    | 1/3                                                              |       |
| - Rate matching attribute                      |    | 160                                                              |       |
| - CRC size                                     |    | 16bit                                                            |       |
| - MCCH configuration information               |    |                                                                  |       |
| - Access Info Period coefficient               |    | Reference to clause 11.1.1 "MCCH configuration parameters"       |       |
|                                                |    | Reference to clause 11.1.1 "MCCH configuration parameters"       |       |
| - Repetition Period coefficient                |    | Reference to clause 11.1.1 "MCCH configuration parameters"       |       |
| - Modification period coefficient              |    | Reference to clause 11.1.1 "MCCH configuration parameters"       |       |
| - RLC info MBMS                                |    |                                                                  |       |
| - DL UM RLC LI size                            |    | 7                                                                |       |
| - DL Duplication Avoidance and Reordering info |    | Not Present                                                      |       |
| - DL Out of sequence delivery info             |    |                                                                  |       |
| - Timer_OSD                                    |    | Not Present                                                      |       |
| - Window size OSD                              |    | 48                                                               |       |





|                                        |  |                                                                                                             |  |
|----------------------------------------|--|-------------------------------------------------------------------------------------------------------------|--|
| - Available Signatures                 |  | '0000 0111 0000 0000'B                                                                                      |  |
| - e-ai-Indication                      |  | TRUE                                                                                                        |  |
| - Preamble scrambling code word number |  | 0                                                                                                           |  |
| - Available Sub Channel Number         |  | '1111 1111 1111'B                                                                                           |  |
| - Prach partitioning                   |  | Refer to Rel-99 ( to Rel-6 ) default values in the same message above                                       |  |
| - Persistence scaling factor list      |  | Refer to Rel-99 (to Rel-6) default values in the same message above                                         |  |
| - AC-to-ASC-mapping                    |  | Refer to Rel-99 (to Rel-6) default values in the same message above                                         |  |
| - Primary CPICH TX power               |  | 31                                                                                                          |  |
| - Constant value                       |  | -10                                                                                                         |  |
| - Prach power offset                   |  | Use Default                                                                                                 |  |
| - Rach transmission parameters         |  | Use Default                                                                                                 |  |
| - AICH info                            |  | Use Default                                                                                                 |  |
| - Power offset Pp-e                    |  | 0                                                                                                           |  |
| - Initial serving grant value          |  | 4                                                                                                           |  |
| - E-DCH TTI                            |  | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI |  |
| - E-AGCH Info                          |  |                                                                                                             |  |
| - E-AGCH Channelisation Code           |  | 10                                                                                                          |  |
| - HARQ Infofor E-DCH                   |  | rvtable                                                                                                     |  |
| - UL DPCH power control info           |  |                                                                                                             |  |
| - Power Control Algorithm              |  | algorithm 1                                                                                                 |  |
| - TPC step size                        |  | 0 (1dB)                                                                                                     |  |
| - $\Delta_{ACK}$                       |  | 3                                                                                                           |  |
| - $\Delta_{NACK}$                      |  | 3                                                                                                           |  |
| - Ack Nack repetition factor           |  | 1                                                                                                           |  |
| - E-DPCCH Info                         |  |                                                                                                             |  |

|                                                        |                                                                 |  |
|--------------------------------------------------------|-----------------------------------------------------------------|--|
| - E-DPCCH/DPCCH power offset                           | 0                                                               |  |
| - Happy bit delay condition                            | 100ms                                                           |  |
| - E-TFC Boost Info                                     | Not Present                                                     |  |
| - E-DPDCH Power Interpolation                          | Not Present                                                     |  |
| - E-DPDCH Info                                         |                                                                 |  |
| - E-TFCI table index                                   | 0                                                               |  |
| - E-DCH minimum set E-TFCI                             | 9                                                               |  |
| - Reference-E-TFCIs                                    | 2 E-TFCIs                                                       |  |
| - Reference E-TFCI                                     | 11                                                              |  |
| - Reference E-TFCI PO                                  | 4                                                               |  |
| - Reference E-TFCI                                     | 83                                                              |  |
| - Reference E-TFCI PO                                  | 16                                                              |  |
| - Min reduced-E-DPDCH gain factor                      | Not Present                                                     |  |
| - Max channelization codes                             | 2sf4 (for E-DCH Category 2 and 4)<br>2sf2and2sf4                |  |
| - $PL_{non-max}$                                       | 0.84                                                            |  |
| - Scheduling Info Configuration                        |                                                                 |  |
| - Periodicity for Sched Info – No Grant                | Use Default                                                     |  |
| - Periodicity for Sched Info – Grant                   | Use Default                                                     |  |
| - Power Offset for Sched Info                          | 0                                                               |  |
| - 3-Index-Step Threshold                               | Use Default                                                     |  |
| - 2-Index-Step Threshold                               | Use Default                                                     |  |
| - F-DPCH TPC command error rate target                 | 4 (corresponds to 0.04 in target F-DPCH TPC command error rate) |  |
| - Additional E-DCH transmission back off               | 8 TTI                                                           |  |
| - Maximum E-DCH resource allocation for CCCH           | 16 TTI                                                          |  |
| -Maximum period for collision resolution phase         | 15 TTI                                                          |  |
| - E-DCH transmission continuation back off             | 24 TTI                                                          |  |
| - ACK/NACK support on HS-DPCCH                         | TRUE                                                            |  |
| - Measurement Feedback Info                            |                                                                 |  |
| -CHOICE mode                                           | FDD                                                             |  |
| - Measurement Power Offset                             | 6dB                                                             |  |
| - CQI Feedback cycle, k                                | 4ms                                                             |  |
| - CQI repetition factor                                | 1                                                               |  |
| - $\Delta_{CQI}$                                       | 5 (corresponds to 0dB in relative power offset)                 |  |
| - Common E-DCH Resource Configuration Information List | 3 E-DCH resources                                               |  |
| - S-offset                                             | 0                                                               |  |
| - F-DPCH Code number                                   | 12                                                              |  |
| - E-RGCH Information                                   |                                                                 |  |
| - Signature Sequence                                   | 0                                                               |  |
| - E-HICH Info                                          |                                                                 |  |
| - Channelisation Code                                  | 4                                                               |  |
| - Signature Sequence                                   | 1                                                               |  |
| - Uplink DPCH Code Info                                |                                                                 |  |
| - ul-DPCCHscramblingCodeType                           | Long                                                            |  |
| - ul-DPCCHscramblingCode                               | 10                                                              |  |
| - Soffset                                              | 1                                                               |  |
| - F-DPCH Code number                                   | 12                                                              |  |
| - E-RGCH Information                                   |                                                                 |  |
| - Signature Sequence                                   | 2                                                               |  |
| - E-HICH Info                                          |                                                                 |  |
| - Channelisation Code                                  | 4                                                               |  |
| - SignatureSequence                                    | 3                                                               |  |
| - Uplink DPCH Code Info                                |                                                                 |  |
| - ul-DPCCHscramblingCodeType                           | Long                                                            |  |
| - ul-DPCCHscramblingCode                               | 1                                                               |  |
| - Soffset                                              | 2                                                               |  |
| - F-DPCH Code number                                   | 12                                                              |  |
| - E-RGCH Information                                   |                                                                 |  |
| - Signature Sequence                                   | 4                                                               |  |
| - E-HICH Info                                          |                                                                 |  |
| - Channelisation Code                                  | 4                                                               |  |

|                              |      |  |
|------------------------------|------|--|
| - SignatureSequence          | 5    |  |
| - Uplink DPCH Code Info      | Long |  |
| - ul-DPCCHscramblingCodeType | 2    |  |
| - ul-DPCCHscramblingCode     |      |  |

| Condition | Explanation                                                                         |
|-----------|-------------------------------------------------------------------------------------|
| A1        | Band I, Band II, Band III                                                           |
| A2        | Band V, Band VI, Band VII                                                           |
| A3        | Band VIII & bands from Band X to Band XXII                                          |
| A4        | Bands beyond Band XXII                                                              |
| B1        | Only for cells which configure HS-DSCH reception in CELL_FACH                       |
| B2        | Only for cells which configure common E-DCH reception in CELL_FACH                  |
| B3        | Only for cells which configure common E-DCH and HS-DSCH reception in CELL_FACH      |
| M1        | Only for MBMS cells with MCCH mapped on an S-CCPCH used for MBMS purposes only      |
| M2        | Only for MBMS cells with MCCH mapped on an S-CCPCH also used for non- MBMS purposes |

NOTE: for non-MBMS cell MBMS specific IEs should be set to not present.

#### Contents of System Information Block type 5 (3.84 Mcps TDD)

|                                        |                                       |
|----------------------------------------|---------------------------------------|
| - SIB6 indicator                       | TRUE                                  |
| - PICH Power offset                    | -5 dB                                 |
| - CHOICE Mode                          | TDD                                   |
| - PUSCH system information             | Not Present                           |
| - PDSCH system information             | Not Present                           |
| - TDD open loop power control          |                                       |
| - Primary CCPCH Tx Power               | 30 dbm                                |
| - CHOICE TDD option                    | 3.84 Mcps TDD /REL-4/                 |
| - Alpha                                | (1/8)                                 |
| - PRACH Constant Value                 | -10                                   |
| - DPCH Constant Value                  | -10                                   |
| - PUSCH Constant Value                 | -10                                   |
| - UE positioning related parameters    | Not Present /REL-4/                   |
| - Primary CCPCH info                   |                                       |
| - CHOICE mode                          | TDD                                   |
| - CHOICE TDD option                    | 3.84 Mcps TDD /REL-4/                 |
| - CHOICE SyncCase                      | Sync Case 2                           |
| - Timeslot                             | 0                                     |
| - Cell parameters ID                   | Not Present                           |
| - SCTD indicator                       | FALSE                                 |
| - PRACH system information list        |                                       |
| - PRACH system information             |                                       |
| - PRACH info                           |                                       |
| - CHOICE mode                          | TDD                                   |
| - CHOICE TDD option                    | 3.84 Mcps TDD /REL-4/                 |
| - Timeslot number                      | 14                                    |
| - PRACH Channelisation Code List       |                                       |
| - CHOICE SF                            | SF8                                   |
| - Channelisation Code List             |                                       |
| - Channelisation Code                  | 8/1                                   |
| - Channelisation Code                  | 8/2                                   |
| - Channelisation Code                  | 8/3                                   |
| - Channelisation Code                  | 8/4                                   |
| - PRACH Midamble                       | Direct                                |
| - PNBSCH allocation                    | Not Present /REL-4/                   |
| - Transport channel Identity           | 15                                    |
| - RACH TFS                             |                                       |
| - CHOICE Transport channel type        | Common transport channels             |
| - Dynamic Transport format information |                                       |
| - RLC size                             | Reference clause 6.10 "Parameter Set" |
| - Number of TB and TTI List            | Reference clause 6.10 "Parameter Set" |
| - Number of Transport blocks           | Reference clause 6.10 "Parameter Set" |
| - CHOICE Mode                          | TDD                                   |
| - Transmission Time Interval           | Not Present                           |
| - CHOICE Logical channel List          | Configured                            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- RACH TFCS</li> <li>- PRACH partitioning</li> <li>- Access Service Class</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> </ul> | <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Not present</p> <p>(ASC#0)</p> <p>TDD</p> <p>3.84 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#1)</p> <p>TDD</p> <p>3.84 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#2)</p> <p>TDD</p> <p>3.84 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#3)</p> <p>TDD</p> <p>3.84 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#4)</p> <p>TDD</p> <p>3.84 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#5)</p> |
| <ul style="list-style-type: none"> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- Persistence scaling factors</li> <li>- Access Service Class</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping table</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- CHOICE <i>mode</i></li> </ul>                                                                                                                                                                                                                                                                                                                                                                   | <p>TDD</p> <p>3.84 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#6)</p> <p>TDD</p> <p>3.84 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>0.9 (for ASC#2)</p> <p>0.9 (for ASC#3)</p> <p>0.9 (for ASC#4)</p> <p>0.9 (for ASC#5)</p> <p>0.9 (for ASC#6)</p> <p>6 (AC0-9)</p> <p>5 (AC10)</p> <p>4 (AC11)</p> <p>3 (AC12)</p> <p>2 (AC13)</p> <p>1 (AC14)</p> <p>0 (AC15)</p> <p>TDD (no data)</p>                                                                                                                                                                                                                                                                                                                                                     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Secondary CCPCH system information</li> <li>- Secondary CCPCH system information</li> <li>- Secondary CCPCH info</li> <li>- CHOICE <i>mode</i></li> <li>- Offset</li> <li>- Common timeslot info</li> <li>- 2<sup>nd</sup> interleaving mode</li> <li>- TFCI coding</li> <li>- Puncturing limit</li> <li>- Repetition period</li> <li>- Repetition length</li> <li>- Individual timeslot info</li> <li>- CHOICE TDD option</li> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble Shift and burst type</li> <li>- CHOICE <i>TDD option</i></li> <li>- CHOICE Burst Type</li> <li>- Midamble Allocation Mode</li> <li>- Midamble configuration burst type 1 and 3</li> <li>- Midamble Shift</li> <li>- CHOICE <i>TDD option</i></li> <li>- no data</li> <li>- Code List</li> <li>- Channelisation Code</li> <li>- TFCS</li> <li>-CHOICE <i>TFCI signalling</i></li> <li>- Normal</li> <li>- TFCI Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- FACH/PCH information</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> </ul> | <p>TDD</p> <p>0</p> <p>Frame</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Not Present (MD "1")</p> <p>Not present (empty)</p> <p>3.84 Mcps TDD</p> <p>1</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>3.84 Mcps TDD</p> <p>Type 1</p> <p>Default midamble</p> <p>4</p> <p>Not Present</p> <p>3.84 Mcps TDD</p> <p>(This IE is repeated for Code number for PCH and FACH)</p> <p>(This IE is repeated for TFC number for PCH and FACH)</p> <p>Complete reconfiguration</p> <p>Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Not Present</p> <p>(PCH)</p> <p>Common transport channels</p> <p>Reference clause 6.10 "Parameter Set"</p>                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- Transmission Time Interval</li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- Transport channel Identity</li> <li>- CTCH indicator</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- Transmission Time Interval</li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul>                                                                                                                                                                                                                                                                                                       | <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>TDD</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>ALL</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>12 (for PCH)</p> <p>FALSE</p> <p>(FACH)</p> <p>Common transport channels</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>TDD</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>ALL</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> |

|                                             |                                       |
|---------------------------------------------|---------------------------------------|
| - Transport channel Identity                | 13 (for FACH)                         |
| - CTCH indicator                            | FALSE                                 |
| - TFS                                       | (FACH)                                |
| - CHOICE Transport channel type             | Common transport channels             |
| - Dynamic Transport format information      |                                       |
| - RLC Size                                  | Reference clause 6.10 "Parameter Set" |
| - Number of TB and TTI List                 | Reference clause 6.10 "Parameter Set" |
| - Number of Transport blocks                | Reference clause 6.10 "Parameter Set" |
| - CHOICE Mode                               | TDD                                   |
| - CHOICE Logical channel List               | ALL                                   |
| - Semi-static Transport Format information  |                                       |
| - Transmission time interval                | Reference clause 6.10 "Parameter Set" |
| - Type of channel coding                    | Reference clause 6.10 "Parameter Set" |
| - Coding Rate                               | Reference clause 6.10 "Parameter Set" |
| - Rate matching attribute                   | Reference clause 6.10 "Parameter Set" |
| - CRC size                                  | Reference clause 6.10 "Parameter Set" |
| - Transport channel Identity                | 14 (for FACH)                         |
| - CTCH indicator                            | FALSE                                 |
| - PICH info                                 |                                       |
| - CHOICE <i>mode</i>                        | TDD                                   |
| - CHOICE TDD option                         | 3.84 Mcps TDD                         |
| - Timeslot number                           | 0                                     |
| - Midamble shift and burst type             |                                       |
| - CHOICE Burst Type                         | Type 1                                |
| - Midamble Allocation Mode                  | Default midamble                      |
| - Midamble configuration burst type 1 and 3 | 8                                     |
| - Midamble Shift                            | Not Present                           |
| - Channelisation code                       | 16/16                                 |
| - Repetition period/length                  | 64/2                                  |
| - Offset                                    | 0                                     |
| - Paging indicator length                   | 4                                     |
| - N <sub>GAP</sub>                          | 4                                     |
| - N <sub>PCH</sub>                          | 2                                     |
| - CBS DRX Level 1 information               | Not Present                           |

## Contents of System Information Block type 5 (1.28 Mcps TDD)

| Information Element             | Conditions | Value/remark                         | Version |
|---------------------------------|------------|--------------------------------------|---------|
| - SIB6 indicator                |            | TRUE                                 |         |
| - PICH Power offset             |            | -5 dB                                |         |
| - CHOICE Mode                   |            | TDD                                  |         |
| - PUSCH system information      |            | Not Present                          |         |
| - PDSCH system information      |            | Not Present                          |         |
| - TDD open loop power control   |            |                                      |         |
| - Primary CCPCH Tx Power        |            | 30 dbm                               |         |
| - CHOICE TDD option             |            | 1.28 Mcps TDD /REL-4/                |         |
| - no data                       |            |                                      |         |
| - Primary CCPCH info            |            |                                      |         |
| - CHOICE <i>mode</i>            |            | TDD                                  |         |
| - CHOICE TDD option             |            | 1.28 Mcps TDD /REL-4/                |         |
| - TSTD indicator                |            | FALSE                                |         |
| - Cell parameters ID            |            | Set to the parameters id of the cell |         |
| - SCTD indicator                |            | FALSE                                |         |
| - PRACH system information list |            |                                      |         |
| - PRACH system information      |            |                                      |         |
| - PRACH info                    |            |                                      |         |
| - CHOICE mode                   |            | TDD                                  |         |
| - CHOICE TDD option             |            | 1.28 Mcps TDD /REL-4/                |         |
| - SYNC_UL info                  |            |                                      |         |
| - SYNC_UL codes bitmap          |            | "11111111"                           |         |
| - SYNC_UL codes bitmap          | B1         | "11110000"                           |         |
| - PRX <sub>UpCHdes</sub>        |            | 15(-105dBm)                          |         |
| - Power Ramping Step            |            | 3 dB                                 |         |
| - Max SYNC_UL Transmissions     |            | 8                                    |         |
| - Mmax                          |            | 2                                    |         |
| - PRACH definition              |            |                                      |         |
| - Timeslot number               |            |                                      |         |

|                                            |                           |  |
|--------------------------------------------|---------------------------|--|
| - CHOICE TDD option                        | 1.28 Mcps TDD /REL-4/     |  |
| - Timeslot number                          | 1                         |  |
| - PRACH Channelisation Code                |                           |  |
| - Channelisation Code List                 | (8/8)                     |  |
| - Channelisation Code                      |                           |  |
| - Midamble Shift and burst type            | 1.28 Mcps TDD /REL-4/     |  |
| - CHOICE TDD option                        | Default midamble          |  |
| - Midamble Allocation Mode                 | 8 (k=16)                  |  |
| - Midamble configuration                   | Not present               |  |
| - Midamble Shift                           |                           |  |
| - FPACH info                               | 0                         |  |
| - Timeslot number                          | (16/15)                   |  |
| - Channelisation code                      |                           |  |
| - Midamble Shift and burst type            | 1.28 Mcps TDD /REL-4/     |  |
| - CHOICE TDD option                        | Default midamble          |  |
| - Midamble Allocation Mode                 | 4 (k=8)                   |  |
| - Midamble configuration                   | Not present               |  |
| - Midamble Shift                           | 4                         |  |
| - WT                                       | 15                        |  |
| - Transport channel Identity               |                           |  |
| - RACH TFS                                 | Common transport channels |  |
| - CHOICE Transport channel type            |                           |  |
| - Dynamic Transport format information     |                           |  |
| - RLC size                                 | 170                       |  |
| - Number of TB and TTI List                |                           |  |
| - Number of Transport blocks               | 1                         |  |
| - CHOICE Mode                              | TDD                       |  |
| - CHOICE Logical channel List              | Configured                |  |
| - Semi-static Transport Format information |                           |  |
| - Transmission time interval               | 10 ms                     |  |
| - Type of channel coding                   | Convolutional             |  |
| - Coding Rate                              | 1/2                       |  |
| - Rate matching attribute                  | 110t"                     |  |
| - CRC size                                 | 16                        |  |
| - RACH TFCS                                | Not present               |  |
| - PRACH partitioning                       |                           |  |
| - Access Service Class                     |                           |  |
| - ASC Settings                             | (ASC#0)                   |  |
| - CHOICE mode                              | TDD                       |  |
| - CHOICE TDD option                        | 1.28 Mcps TDD             |  |
| - Available SYNC_UL codes indices          | "11111111"                |  |
| - CHOICE subchannel size                   | Size1                     |  |
| - Available Subchannels                    | Null                      |  |
| - ASC Settings                             | (ASC#1)                   |  |
| - CHOICE mode                              | TDD                       |  |
| - CHOICE TDD option                        | 1.28 Mcps TDD             |  |
| - Available SYNC_UL codes indices          | "11111111"                |  |
| - CHOICE subchannel size                   | Size1                     |  |
| - Available Subchannels                    | Null                      |  |
| - ASC Settings                             | (ASC#2)                   |  |
| - CHOICE mode                              | TDD                       |  |
| - CHOICE TDD option                        | 1.28 Mcps TDD             |  |
| - Available SYNC_UL codes indices          | "11111111"                |  |
| - CHOICE subchannel size                   | Size1                     |  |
| - Available Subchannels                    | Null                      |  |
| - ASC Settings                             | (ASC#3)                   |  |
| - CHOICE mode                              | TDD                       |  |
| - CHOICE TDD option                        | 1.28 Mcps TDD             |  |
| - Available SYNC_UL codes indices          | "11111111"                |  |
| - CHOICE subchannel size                   | Size1                     |  |
| - Available Subchannels                    | Null                      |  |
| - ASC Settings                             | (ASC#4)                   |  |
| - CHOICE mode                              | TDD                       |  |
| - CHOICE TDD option                        | 1.28 Mcps TDD             |  |
| - Available SYNC_UL codes indices          | "11111111"                |  |
| - CHOICE subchannel size                   | Size1                     |  |
| - Available Subchannels                    | Null                      |  |
| - ASC Settings                             | (ASC#5)                   |  |

|                                      |    |                                       |  |
|--------------------------------------|----|---------------------------------------|--|
| - CHOICE mode                        |    | TDD                                   |  |
| - CHOICE TDD option                  |    | 1.28 Mcps TDD                         |  |
| - Available SYNC_UL codes indices    |    | "11111111"                            |  |
| - CHOICE subchannel size             |    | Size1                                 |  |
| - Available Subchannels              |    | Null                                  |  |
| - ASC Settings                       |    | (ASC#6)                               |  |
| - CHOICE mode                        |    | TDD                                   |  |
| - CHOICE TDD option                  |    | 1.28 Mcps TDD                         |  |
| - Available SYNC_UL codes indices    |    | "11111111"                            |  |
| - CHOICE subchannel size             |    | Size1                                 |  |
| - Available Subchannels              |    | Null                                  |  |
| - Access Service Class               |    |                                       |  |
| - Persistence scaling factor         |    | 0.9 (for ASC#2)                       |  |
| - Persistence scaling factor         |    | 0.9 (for ASC#3)                       |  |
| - Persistence scaling factor         |    | 0.9 (for ASC#4)                       |  |
| - Persistence scaling factor         |    | 0.9 (for ASC#5)                       |  |
| - Persistence scaling factor         |    | 0.9 (for ASC#6)                       |  |
| - AC-to-ASC mapping                  |    |                                       |  |
| - AC-to-ASC mapping table            |    |                                       |  |
| - AC-to-ASC mapping                  |    | 6 (AC0-9)                             |  |
| - AC-to-ASC mapping                  |    | 5 (AC10)                              |  |
| - AC-to-ASC mapping                  |    | 4 (AC11)                              |  |
| - AC-to-ASC mapping                  |    | 3 (AC12)                              |  |
| - AC-to-ASC mapping                  |    | 2 (AC13)                              |  |
| - AC-to-ASC mapping                  |    | 1 (AC14)                              |  |
| - AC-to-ASC mapping                  |    | 0 (AC15)                              |  |
| - CHOICE <i>mode</i>                 |    | TDD (no data)                         |  |
| - Secondary CCPCH system information |    |                                       |  |
| - Secondary CCPCH info               |    |                                       |  |
| - CHOICE <i>mode</i>                 |    | TDD                                   |  |
| - Offset                             |    | 0                                     |  |
| - Common timeslot info               |    |                                       |  |
| - 2 <sup>nd</sup> interleaving mode  |    | Frame                                 |  |
| - TFCI coding                        |    | 16 bits                               |  |
| - Puncturing limit                   |    | Reference clause 6.11 "Parameter Set" |  |
| - Repetition period                  |    | 1                                     |  |
| - Repetition length                  |    | 0                                     |  |
| - Individual timeslot info           |    |                                       |  |
| - CHOICE <i>TDD option</i>           |    | 1.28 Mcps TDD                         |  |
| - Timeslot number                    |    | 0                                     |  |
| - TFCI existence                     |    | Reference clause 6.11 "Parameter Set" |  |
| - Midamble Shift and burst type      |    |                                       |  |
| - CHOICE <i>TDD option</i>           |    | 1.28 Mcps TDD                         |  |
| - Midamble Allocation Mode           |    | Default midamble                      |  |
| - Midamble configuration             |    | 4 (k=8)                               |  |
| - Midamble Shift                     |    | Not Present                           |  |
| - CHOICE <i>TDD option</i>           |    | 1.28 Mcps TDD                         |  |
| - Modulation                         |    | QPSK                                  |  |
| - SS-TPC Symbols                     |    | 0                                     |  |
| - Code List                          |    |                                       |  |
| - Channelisation Code                |    | (16/7)                                |  |
| - Channelisation Code                |    | (16/8)                                |  |
| - Channelisation Code                | B2 | (16/9)                                |  |
| - Channelisation Code                | B2 | (16/10)                               |  |
| - Channelisation Code                | B2 | (16/11)                               |  |
| - TFCS                               |    |                                       |  |
| - CHOICE TFCI <i>signalling</i>      |    | Normal                                |  |
| - TFCI Field 1 information           |    |                                       |  |
| - CHOICE TFCS representation         |    | Complete                              |  |
| - TFCS addition information          |    |                                       |  |
| - CHOICE CTFC Size                   |    | 4 bit                                 |  |
| - CHOICE CTFC Size                   | B2 | 6 bit                                 |  |
| - CTFC information                   |    | 0                                     |  |
| - Power offset information           |    | Not Present                           |  |
| - CTFC information                   |    | 1                                     |  |
| - Power offset information           |    | Not Present                           |  |



|                                            |    |                           |  |
|--------------------------------------------|----|---------------------------|--|
| - CTFC information                         |    | 2                         |  |
| - Power offset information                 |    | Not Present               |  |
| - CTFC information                         |    | 3                         |  |
| - Power offset information                 |    | Not Present               |  |
| - CTFC information                         |    | 4                         |  |
| - Power offset information                 |    | Not Present               |  |
| - CTFC information                         |    | 5                         |  |
| - Power offset information                 |    | Not Present               |  |
| - CTFC information                         | B2 | 6                         |  |
| - Power offset information                 | B2 | Not Present               |  |
| - CTFC information                         | B2 | 7                         |  |
| - Power offset information                 | B2 | Not Present               |  |
| - CTFC information                         | B2 | 8                         |  |
| - Power offset information                 | B2 | Not Present               |  |
| - CTFC information                         | B2 | 9                         |  |
| - Power offset information                 | B2 | Not Present               |  |
| - CTFC information                         | B2 | 10                        |  |
| - Power offset information                 | B2 | Not Present               |  |
| - CTFC information                         | B2 | 11                        |  |
| - Power offset information                 | B2 | Not Present               |  |
| - CTFC information                         | B2 | 12                        |  |
| - Power offset information                 | B2 | Not Present               |  |
| - CTFC information                         | B2 | 13                        |  |
| - Power offset information                 | B2 | Not Present               |  |
| - CTFC information                         | B2 | 14                        |  |
| - Power offset information                 | B2 | Not Present               |  |
| - CTFC information                         | B2 | 15                        |  |
| - Power offset information                 | B2 | Not Present               |  |
| - CTFC information                         | B2 | 16                        |  |
| - Power offset information                 | B2 | Not Present               |  |
| - CTFC information                         | B2 | 17                        |  |
| - Power offset information                 | B2 | Not Present               |  |
| - FACH/PCH information                     |    |                           |  |
| - Transport channel Identity               |    | 12 (for PCH)              |  |
| - TFS                                      |    | (PCH)                     |  |
| - CHOICE Transport channel type            |    | Common transport channels |  |
| - Dynamic Transport format information     |    |                           |  |
| - RLC Size                                 |    | 240                       |  |
| - Number of TB and TTI List                |    |                           |  |
| - Number of Transport blocks               |    | 0                         |  |
| - Number of Transport blocks               |    | 1                         |  |
| - CHOICE Mode                              |    | TDD                       |  |
| - CHOICE Logical channel List              |    | ALL                       |  |
| - Semi-static Transport Format information |    |                           |  |
| - Transmission time interval               |    | 20 ms                     |  |
| - Type of channel coding                   |    | convolutional             |  |
| - Coding Rate                              |    | 1/2                       |  |
| - Rate matching attribute                  |    | 230                       |  |
| - CRC size                                 |    | 16 bit                    |  |
| - Transport channel Identity               |    | 13 (for FACH)             |  |
| - TFS                                      |    | (FACH)                    |  |
| - CHOICE Transport channel type            |    | Common transport channels |  |
| - Dynamic Transport format information     |    |                           |  |
| - RLC Size                                 |    | 171                       |  |
| - Number of TB and TTI List                |    |                           |  |
| - Number of Transport blocks               |    | 0                         |  |
| - Number of Transport blocks               |    | 1                         |  |
| - Number of Transport blocks               |    | 2                         |  |
| - CHOICE Mode                              |    | TDD                       |  |
| - CHOICE Logical channel List              |    | ALL                       |  |
| - Semi-static Transport Format information |    |                           |  |
| - Transmission time interval               |    | 20 ms                     |  |
| - Type of channel coding                   |    | convolutional             |  |
| - Coding Rate                              |    | 1/2                       |  |
| - Rate matching attribute                  |    | 230                       |  |
| - CRC size                                 |    | 16 bit                    |  |
| - CTCH indicator                           |    | FALSE                     |  |

|                                            |    |                           |       |
|--------------------------------------------|----|---------------------------|-------|
| - Transport channel Identity               | B2 | 14 (for FACH)             |       |
| - TFS                                      |    | (FACH)                    |       |
| - CHOICE Transport channel type            |    | Common transport channels |       |
| - Dynamic Transport format information     |    |                           |       |
| - RLC Size                                 |    | 363                       |       |
| - Number of TB and TTI List                |    | 0                         |       |
| - Number of Transport blocks               |    | 1                         |       |
| - Number of Transport blocks               |    | 2                         |       |
| - CHOICE Mode                              |    | TDD                       |       |
| - CHOICE Logical channel List              |    | ALL                       |       |
| - Semi-static Transport Format information |    |                           |       |
| - Transmission time interval               |    | 20 ms                     |       |
| - Type of channel coding                   |    | Turbo                     |       |
| - Coding Rate                              |    | 1/3                       |       |
| - Rate matching attribute                  |    | 130                       |       |
| - CRC size                                 |    | 16 bit                    |       |
| - CTCH indicator                           |    | FALSE                     |       |
| - PICH info                                |    |                           |       |
| - CHOICE <i>mode</i>                       |    | TDD                       |       |
| - CHOICE <i>TDD option</i>                 |    | 1.28 Mcps TDD             |       |
| - Timeslot number                          |    | 0                         |       |
| - Midamble shift and burst type            |    |                           |       |
| - Midamble Allocation Mode                 |    | Default midamble          |       |
| - Midamble configuration                   |    | 4 (k=8)                   |       |
| - Midamble Shift                           |    | Not Present               |       |
| - Channelisation code list                 |    |                           |       |
| - Channelisation code                      |    | (16/5)                    |       |
| - Channelisation code                      |    | (16/6)                    |       |
| - Repetition period/length                 |    | 64/2                      |       |
| - Offset                                   |    | 0                         |       |
| - Paging indicator length                  |    | 4                         |       |
| - N <sub>GAP</sub>                         |    | 4                         |       |
| - N <sub>PCH</sub>                         |    | 2                         |       |
| - CBS DRX Level 1 information              |    | Not Present               |       |
| - CHOICE Mode                              | B1 | TDD                       | Rel-8 |
| - HS-DSCH common system information        |    |                           | Rel-8 |
| - CCCH mapping info                        |    |                           |       |
| - Logical channel identity                 |    | 5                         |       |
| - MAC-ehs queue identity                   |    | 0                         |       |
| - SRB1 mapping info                        |    | Not Present               |       |
| - Common MAC-ehs reordering queue list     |    |                           |       |
| - MAC-ehs queue to configure list          |    | Configure 2 queues        |       |
| - MAC-ehs queue Id                         |    | 0                         |       |
| - T1                                       |    | 50ms                      |       |
| - Treset                                   |    | Not Present               |       |
| - MAC-ehs window size                      |    | 16                        |       |
| - MAC-ehs queue Id                         |    | 1                         |       |
| - T1                                       |    | 50ms                      |       |
| - Treset                                   |    | Not Present               |       |
| - MAC-ehs window size                      |    | 16                        |       |
| - HS-SCCH system info                      |    |                           |       |
| - HS-SCCH Set Configuration                |    | 1                         |       |
| - Timeslot number                          |    | 0                         |       |
| - First Channelisation code                |    | 16/11                     |       |
| - Second Channelisation code               |    | 16/12                     |       |
| - Midamble Allocation mode                 |    | Default midamble          |       |
| - Midamble configuration                   |    | 16                        |       |
| - HS-SICH configuration                    |    |                           |       |
| - Timeslot number                          |    | 1                         |       |
| - Channelisation code                      |    | 16/13                     |       |
| - Midamble Allocation mode                 |    | Default midamble          |       |
| - Midamble configuration                   |    | 16                        |       |
| - PRX <sub>HS-SICH</sub>                   |    | -120                      |       |
| - Ack-Nack Power Offset                    |    | 0                         |       |
| - TPC step size                            |    | 1                         |       |
| - BLER target                              |    | -2.0                      |       |
| - Power Control GAP                        |    | Not Present               |       |

|                                         |    |                                |       |
|-----------------------------------------|----|--------------------------------|-------|
| - Pathloss compensation switch          |    | Not Present                    |       |
| - HARQ system Info                      |    | Reference to clause 6.11.5.4.6 |       |
| - Number of Processes                   |    | Parameter Set                  |       |
| - CHOICE <i>Memory Partitioning</i>     |    | Implicit                       |       |
| - HS-PDSCH Midamble Configuration       |    | Default midamble               |       |
| - Midamble Allocation Mode              |    | 16                             |       |
| - Midamble Configuration                |    | Use 4                          |       |
| - Common H-RNTI Information             |    | '1111 1010 1010 1010'          |       |
| - Common H-RNTI                         |    | '1111 1010 1010 1011'          |       |
| - Common H-RNTI                         |    | '1111 1010 1010 1100'          |       |
| - Common H-RNTI                         |    | '1111 1010 1010 1110'          |       |
| - BCCH specific H-RNTI                  |    | '1111 1010 1110 1010'          |       |
| - HS-DSCH paging system information     |    |                                | Rel-8 |
| - PICH for HS-DSCH list                 |    | Use value 1                    |       |
| - CHOICE Configuration Mode             |    | Explicit                       |       |
| - HSDPA associated PICH info            |    | TDD                            |       |
| - Timeslot number                       |    | 0                              |       |
| - Midamble shift and burst type         |    |                                |       |
| - CHOICE <i>TDD option</i>              |    | 1.28 Mcps TDD                  |       |
| - Midamble Allocation Mode              |    | Default midamble               |       |
| - Midamble Configuration                |    | 16                             |       |
| - CHOICE <i>TDD option</i>              |    | 1.28 Mcps TDD                  |       |
| - Codes list                            |    | 1                              |       |
| - Channelisation code                   |    | 16/5                           |       |
| - Repetition period/length              |    | Not Present                    |       |
| - Offset                                |    | 0                              |       |
| - Paging indicator length               |    | Not Present                    |       |
| - N <sub>GAP</sub>                      |    | Not Present                    |       |
| - N <sub>PCH</sub>                      |    | Not Present                    |       |
| - DTCH/DCCH Reception window size       |    | 4                              |       |
| - PCCH related information              |    | 3                              |       |
| - Paging associated HS-PDSCH info       |    | 1                              |       |
| - HS-PDSCH Midamble Configuration       |    | 1                              |       |
| - Midamble Allocation Mode              |    | Default midamble               |       |
| - Midamble Configuration                |    | 16                             |       |
| - Timeslot Resource Related Information |    | '000100'                       |       |
| - Code Resource Information             |    |                                |       |
| - Start code                            |    | 16/16                          |       |
| - Stop code                             |    | 16/16                          |       |
| - Paging Sub-Channel Size               |    | 1                              |       |
| - Transport Block Size List             |    | 1                              |       |
| - Transport Block Size Index            |    | 1                              |       |
| CommonEDCHSystemInfo                    | B1 |                                | Rel-8 |
| -ul-InterferenceForCommonEDCH           |    | Not Present                    |       |
| -common-E-DCH-MAC-d-FlowList            |    |                                |       |
| - mac-d-FlowIdentity                    |    | 1                              |       |
| - mac-d-FlowPowerOffset                 |    | 0                              |       |
| - mac-d-FlowMaxRetrans                  |    | 7                              |       |
| - mac-d-FlowMultiplexingList            |    | Not Present                    |       |
| - e-dch-mac-d-flow-retransmission-timer |    | 10ms                           |       |
| -CHOICE Mode                            |    | TDD                            |       |
| - CHOICE <i>TDD option</i>              |    | 1.28 Mcps TDD                  |       |
| - prach-PreambleForEnhancedUplink       |    |                                |       |
| - E-RUCCH Info                          |    |                                |       |
| - T-RUCCH                               |    | ms200                          |       |
| - N-RUCCH                               |    | 3                              |       |
| - T-WAIT                                |    | ms320                          |       |
| - T-SI                                  |    | ms20                           |       |
| - Extended Estimation Window            |    | 3                              |       |
| - E-RUCCH Access Service class          |    | Not Present                    |       |
| - E-RUCCH persistence scaling factor    |    | Not Present                    |       |
| list                                    |    |                                |       |
| - SYNC_UL info                          |    |                                |       |
| - SYNC_UL codes bitmap                  |    | "00001111"                     |       |
| - PRACH Information                     |    | Not Present                    |       |

|                                                         |  |                       |  |
|---------------------------------------------------------|--|-----------------------|--|
| - E-PUCH info                                           |  |                       |  |
| - E-TFCS information                                    |  |                       |  |
| - Reference Beta Information QPSK list                  |  |                       |  |
| - Reference Code Rate                                   |  | 2                     |  |
| - Reference Beta                                        |  | -10                   |  |
| - Reference Code Rate                                   |  | 8                     |  |
| - Reference Beta                                        |  | -3                    |  |
| - Reference Beta Information 16QAM list                 |  |                       |  |
| - Reference Code Rate                                   |  | 2                     |  |
| - Reference Beta                                        |  | -5                    |  |
| - Reference Code Rate                                   |  | 8                     |  |
| - Reference Beta                                        |  | 2                     |  |
| - SNPL Reporting Type                                   |  | type1                 |  |
| - PRXdes_base                                           |  | -112                  |  |
| - Beacon PL Est.                                        |  | Not Present           |  |
| - TPC step size                                         |  | 1                     |  |
| - Pebase power control gap                              |  | Not Present           |  |
| - Uplink synchronisation parameters                     |  | Not Present           |  |
| - E-PUCH TS configuration list                          |  |                       |  |
| - TS number                                             |  | 1                     |  |
| - Midamble shift and burst type                         |  |                       |  |
| - Midamble Allocation Mode                              |  | Default midamble      |  |
| - Midamble configuration                                |  | 16                    |  |
| - Minimum allowed code rate                             |  | 0                     |  |
| - Maximum allowed code rate                             |  | 63                    |  |
| - Maximum number of retransmissions for Scheduling Info |  | 3                     |  |
| - Retransmission Timer for Scheduling Info              |  | 40                    |  |
| - Power Offset for Scheduling Info                      |  | 0                     |  |
| - E-HICH info                                           |  |                       |  |
| - N <sub>E-HICH</sub>                                   |  | 6                     |  |
| - E-HICH set configuration                              |  |                       |  |
| - EI                                                    |  | 0                     |  |
| - Timeslot number                                       |  | 6                     |  |
| - Channelisation code                                   |  | 16/6                  |  |
| - Midamble Allocation Mode                              |  | Default midamble      |  |
| - Midamble configuration                                |  | 16                    |  |
| - E-AGCH Info                                           |  |                       |  |
| - RDI Indicator                                         |  | TRUE                  |  |
| - TPC step size                                         |  | 1                     |  |
| - E-AGCH set configuration                              |  |                       |  |
| - Timeslot number                                       |  | 6                     |  |
| - First Channelisation code                             |  | 16/3                  |  |
| - Second Channelisation code                            |  | 16/4                  |  |
| - Midamble Allocation Mode                              |  | Default midamble      |  |
| - Midamble configuration                                |  | 16                    |  |
| - E-AGCH BLER target                                    |  | -0.05                 |  |
| - HARQ info for E-DCH                                   |  |                       |  |
| - CHOICE <i>mode</i>                                    |  | TDD                   |  |
| - HARQ RV Configuration                                 |  | rvtable               |  |
| - CCCH transmission info                                |  |                       |  |
| - Common E-RNTI info                                    |  |                       |  |
| - Common E-RNTI information                             |  | 4                     |  |
| - Starting E-RNTI                                       |  | '1111 1010 1010 1010' |  |
| - Number of group                                       |  | 1                     |  |
| - Number of E-RNTI per group                            |  | 1                     |  |
| - Starting E-RNTI                                       |  | '1111 1010 1010 1011' |  |
| - Number of group                                       |  | 1                     |  |
| - Number of E-RNTI per group                            |  | 2                     |  |
| - Starting E-RNTI                                       |  | '1111 1010 1010 1100' |  |
| - Number of group                                       |  | 1                     |  |

|                                          |                       |  |
|------------------------------------------|-----------------------|--|
| - Number of E-RNTI per group             | 3                     |  |
| - Starting E-RNTI                        | '1111 1010 1010 1110' |  |
| - Number of group                        | 1                     |  |
| - Number of E-RNTI per group             | 4                     |  |
| - HARQ maximum number of retransmissions | 2                     |  |
| - HARQ retransmission timer              | 160                   |  |
| - HARQ power offset                      | 0                     |  |

|    |                                                                                |
|----|--------------------------------------------------------------------------------|
| B1 | Only for cells which configure HS-DSCH and common E-DCH reception in CELL_FACH |
| B2 | For TDD signalling configuration                                               |

## Contents of System Information Block type 5 (7.68 Mcps TDD)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <ul style="list-style-type: none"> <li>- SIB6 indicator</li> <li>- PICH Power offset</li> <li>- CHOICE Mode</li> <li>- PUSCH system information</li> <li>- PUSCH system information VHCR</li> <li>- PDSCH system information</li> <li>- TDD open loop power control</li> <li>- Primary CCPCH Tx Power</li> <li>- CHOICE TDD option <ul style="list-style-type: none"> <li>- Alpha</li> </ul> </li> <li>- PRACH Constant Value</li> <li>- DPCH Constant Value</li> <li>- PUSCH Constant Value</li> <li>- UE positioning related parameters</li> <li>- Primary CCPCH info <ul style="list-style-type: none"> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- CHOICE SyncCase</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>TRUE</li> <li>-5 dB</li> <li>TDD</li> <li>Not Present</li> <li>Not Present</li> <li>Not Present</li> <li></li> <li>30 dbm</li> <li>7.68 Mcps TDD</li> <li>(1/8)</li> <li>-10</li> <li>-10</li> <li>-10</li> <li>Not Present</li> <li></li> <li>TDD</li> <li>7.68 Mcps TDD</li> <li>Sync Case 2</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>- Timeslot</li> <li>- Cell parameters ID</li> <li>- SCTD indicator</li> <li>- PRACH system information list</li> <li>- PRACH system information <ul style="list-style-type: none"> <li>- PRACH info</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option <ul style="list-style-type: none"> <li>- Timeslot number</li> </ul> </li> <li>- PRACH Channelisation Code List VHCR</li> <li>- CHOICE SF <ul style="list-style-type: none"> <li>- Channelisation Code List</li> <li>- Channelisation Code</li> <li>- Channelisation Code</li> <li>- Channelisation Code</li> <li>- Channelisation Code</li> </ul> </li> <li>- PRACH Midamble</li> <li>- PNBSCH allocation</li> <li>- Transport channel Identity</li> <li>- RACH TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information <ul style="list-style-type: none"> <li>- RLC size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode <ul style="list-style-type: none"> <li>- Transmission Time Interval</li> </ul> </li> </ul> </li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul> </li> </ul> </li></ul> | <ul style="list-style-type: none"> <li>0</li> <li>Not Present</li> <li>FALSE</li> <li></li> <li></li> <li>TDD</li> <li>7.68 Mcps TDD</li> <li>14</li> <li></li> <li>SF16</li> <li></li> <li>16/1</li> <li>16/2</li> <li>16/3</li> <li>16/4</li> <li>Direct</li> <li>Not Present /REL-4/</li> <li>15</li> <li></li> <li>Common transport channels</li> <li></li> <li>Reference clause 6.10 "Parameter Set"</li> <li>Reference clause 6.10 "Parameter Set"</li> <li>Reference clause 6.10 "Parameter Set"</li> <li>TDD</li> <li>Not Present</li> <li>Configured</li> <li></li> <li>Reference clause 6.10 "Parameter Set"</li> <li>Reference clause 6.10 "Parameter Set"</li> <li>Reference clause 6.10 "Parameter Set"</li> <li>Reference clause 6.10 "Parameter Set"</li> <li>Reference clause 6.10 "Parameter Set"</li> </ul> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- RACH TFCS</li> <li>- PRACH partitioning</li> <li>- Access Service Class</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> </ul>                                       | <p>Not present</p> <p>(ASC#0)</p> <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#1)</p> <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#2)</p> <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#3)</p> <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#4)</p> <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#5)</p> |
| <ul style="list-style-type: none"> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- Persistence scaling factors</li> <li>- Access Service Class</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping table</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- CHOICE mode</li> <li>- Secondary CCPCH system information</li> <li>- Secondary CCPCH system information</li> <li>- Secondary CCPCH info</li> <li>- CHOICE mode</li> <li>- Offset</li> <li>- Common timeslot info</li> </ul> | <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>(ASC#6)</p> <p>TDD</p> <p>7.68 Mcps TDD</p> <p>Not Present (Default all)</p> <p>Size1</p> <p>null</p> <p>0.9 (for ASC#2)</p> <p>0.9 (for ASC#3)</p> <p>0.9 (for ASC#4)</p> <p>0.9 (for ASC#5)</p> <p>0.9 (for ASC#6)</p> <p>6 (AC0-9)</p> <p>5 (AC10)</p> <p>4 (AC11)</p> <p>3 (AC12)</p> <p>2 (AC13)</p> <p>1 (AC14)</p> <p>0 (AC15)</p> <p>TDD (no data)</p> <p>7.68 Mcps TDD</p> <p>0</p>                                                                                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- 2<sup>nd</sup> interleaving mode</li> <li>- TFCI coding</li> <li>- Puncturing limit</li> <li>- Repetition period</li> <li>- Repetition length</li> <li>- Individual timeslot info</li> <li>- CHOICE TDD option               <ul style="list-style-type: none"> <li>- Timeslot number</li> </ul> </li> <li>- TFCI existence</li> <li>- Midamble Shift and burst type</li> <li>- CHOICE <i>TDD option</i> <ul style="list-style-type: none"> <li>- CHOICE Burst Type</li> <li>- Midamble Allocation Mode</li> <li>- Midamble configuration burst type 1 and 3</li> <li>- Midamble Shift</li> </ul> </li> <li>- CHOICE <i>TDD option</i> <ul style="list-style-type: none"> <li>- no data</li> </ul> </li> <li>- Code List</li> <li>- Channelisation Code</li> <li>- TFCS</li> <li>- CHOICE <i>TFCS signalling</i> <ul style="list-style-type: none"> <li>- Normal</li> <li>- TFCS Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete information</li> <li>- CHOICE CTFC Size               <ul style="list-style-type: none"> <li>- CTFC information</li> <li>- Power offset information</li> </ul> </li> </ul> </li> <li>- FACH/PCH information</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> </ul>                                                                                                                                                                                                    | <p>Frame</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Not Present (MD "1")</p> <p>Not present (empty)</p> <p>7.68 Mcps TDD</p> <p>1</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>7.68 Mcps TDD</p> <p>Type 1</p> <p>Default midamble</p> <p>4</p> <p>Not Present</p> <p>7.68 Mcps TDD</p> <p>(This IE is repeated for Code number for PCH and FACH)</p> <p>(This IE is repeated for TFC number for PCH and FACH)</p> <p>Complete reconfiguration</p> <p>Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Not Present</p> <p>(PCH)</p> <p>Common transport channels</p> <p>Reference clause 6.10 "Parameter Set"</p>                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode               <ul style="list-style-type: none"> <li>- Transmission Time Interval</li> </ul> </li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information               <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul> </li> <li>- Transport channel Identity</li> <li>- CTCH indicator</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information               <ul style="list-style-type: none"> <li>- RLC Size</li> </ul> </li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode               <ul style="list-style-type: none"> <li>- Transmission Time Interval</li> </ul> </li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information               <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul> </li> <li>- Transport channel Identity</li> <li>- CTCH indicator</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information               <ul style="list-style-type: none"> <li>- RLC Size</li> </ul> </li> </ul> | <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>TDD</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>ALL</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>12 (for PCH)</p> <p>FALSE</p> <p>(FACH)</p> <p>Common transport channels</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>TDD</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>ALL</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>13 (for FACH)</p> <p>FALSE</p> <p>(FACH)</p> <p>Common transport channels</p> <p>Reference clause 6.10 "Parameter Set"</p> |

|                                             |                                       |
|---------------------------------------------|---------------------------------------|
| - Number of TB and TTI List                 | Reference clause 6.10 "Parameter Set" |
| - Number of Transport blocks                | Reference clause 6.10 "Parameter Set" |
| - CHOICE Mode                               | TDD                                   |
| - CHOICE Logical channel List               | ALL                                   |
| - Semi-static Transport Format information  |                                       |
| - Transmission time interval                | Reference clause 6.10 "Parameter Set" |
| - Type of channel coding                    | Reference clause 6.10 "Parameter Set" |
| - Coding Rate                               | Reference clause 6.10 "Parameter Set" |
| - Rate matching attribute                   | Reference clause 6.10 "Parameter Set" |
| - CRC size                                  | Reference clause 6.10 "Parameter Set" |
| - Transport channel Identity                | 14 (for FACH)                         |
| - CTCH indicator                            | FALSE                                 |
| - PICH info                                 |                                       |
| - CHOICE <i>mode</i>                        | TDD                                   |
| - CHOICE TDD option                         | 7.68 Mcps TDD                         |
| - Timeslot number                           | 0                                     |
| - Midamble shift and burst type             |                                       |
| - CHOICE Burst Type                         | Type 1                                |
| - Midamble Allocation Mode                  | Default midamble                      |
| - Midamble configuration burst type 1 and 3 | 8                                     |
| - Midamble Shift                            | Not Present                           |
| - Channelisation code                       | 32/32                                 |
| - Repetition period/length                  | 64/2                                  |
| - Offset                                    | 0                                     |
| - Paging indicator length                   | 4                                     |
| - $N_{\text{GAP}}$                          | 4                                     |
| - $N_{\text{PCH}}$                          | 2                                     |
| - MCCH configuration information            | Not Present                           |
| - CBS DRX Level 1 information               | Not Present                           |
| - Frequency band indicator                  | Not Present                           |
| - Frequency band indicator 2                | Not Present                           |
| - HSDPA cell Indicator                      | Not Present                           |
| - E-DCH cell Indicator                      | Not Present                           |
| - Secondary CCPCH system information MBMS   | Not Present                           |

### Contents of System Information Block type 5bis (FDD)

The message structure of the System information block type 5bis should be the same as System information block type 5 with the following exceptions as given below.

|                              |    |                     |
|------------------------------|----|---------------------|
| - Frequency Band Indicator   | A1 | FDD Band under test |
| - Frequency Band Indicator 2 |    | Not Present         |
| - Frequency Band Indicator 3 |    | Not Present         |
| - Frequency Band Indicator   | A2 | Extension indicator |
| - Frequency Band Indicator 2 |    | FDD Band under test |
| - Frequency Band Indicator 3 |    | Not Present         |

| Condition | Explanation     |
|-----------|-----------------|
| A1        | Band IV         |
| A2        | Band IX, Band X |

### Contents of System Information Block type 6 in connected mode (FDD)

|                                 |             |
|---------------------------------|-------------|
| - PICH power offset             | -5 dB       |
| - CHOICE Mode                   | FDD         |
| - AICH power offset             | -5 dB       |
| - Primary CCPCH info            | Not Present |
| - PRACH system information list | Not present |
| - Secondary CCPCH system info   | Not Present |
| - CBS DRX Level 1 information   | Not Present |

### Contents of System Information Block type 6 in connected mode (similar to SIB type 5) (3.84 Mcps TDD)



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- PICH Power offset</li> <li>- CHOICE Mode</li> <li>- PUSCH system information</li> <li>- PDSCH system information</li> <li>- TDD open loop power control</li> <li>- Primary CCPCH Tx Power</li> <li>- CHOICE TDD option</li> <li>- Alpha</li> <li>- PRACH Constant Value</li> <li>- DPCH Constant Value</li> <li>- PUSCH Constant Value</li> <li>- Primary CCPCH info</li> <li>- CHOICE <i>mode</i></li> <li>- CHOICE TDD option</li> <li>- CHOICE SyncCase</li> <li>- Timeslot</li> <li>- Cell parameters ID</li> <li>- SCTD indicator</li> <li>- PRACH system information list</li> <li>- PRACH system information</li> <li>- PRACH info</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Timeslot number</li> <li>- PRACH Channelisation Code List</li> <li>- CHOICE SF</li> <li>- Channelisation Code List</li> <li>- Channelisation Code</li> <li>- Channelisation Code</li> <li>- Channelisation Code</li> <li>- Channelisation Code</li> <li>- PRACH Midamble</li> <li>- Transport channel Identity</li> <li>- RACH TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- Transmission Time Interval</li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information</li> </ul> | <ul style="list-style-type: none"> <li>-5 dB</li> <li>TDD</li> <li>Not Present</li> <li>Not Present</li> <li></li> <li>30 dbm</li> <li>3.84 Mcps TDD /REL-4/</li> <li>(1/8)</li> <li>-10</li> <li>-10</li> <li>-10</li> <li></li> <li>TDD</li> <li>3.84 Mcps TDD /REL-4/</li> <li>Sync Case 2</li> <li>0</li> <li>Not Present</li> <li>FALSE</li> <li></li> <li></li> <li></li> <li>TDD</li> <li>3.84 Mcps TDD /REL-4/</li> <li>14</li> <li>SF8</li> <li></li> <li>8/1</li> <li>8/2</li> <li>8/3</li> <li>8/4</li> <li>Direct</li> <li>15</li> <li></li> <li>Common transport channels</li> <li></li> <li>Reference clause 6.10 "Parameter Set"</li> <li>Reference clause 6.10 "Parameter Set"</li> <li>Reference clause 6.10 "Parameter Set"</li> <li>TDD</li> <li>Not Present</li> <li>Configured</li> </ul> |
| <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- RACH TFCS</li> <li>- PRACH partitioning</li> <li>- Access Service Class</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> <li>- Available Subchannels</li> <li>- ASC Settings</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Available Channelisation codes indices</li> <li>- CHOICE subchannel size</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Reference clause 6.10 "Parameter Set"</li> <li>Reference clause 6.10 "Parameter Set"</li> <li>Reference clause 6.10 "Parameter Set"</li> <li>Reference clause 6.10 "Parameter Set"</li> <li>Reference clause 6.10 "Parameter Set"</li> <li>Not present</li> <li></li> <li></li> <li>(ASC#0)</li> <li>TDD</li> <li>3.84 Mcps TDD /REL-4/</li> <li>Not Present (Default all)</li> <li>Size1</li> <li>null</li> <li>(ASC#1)</li> <li>TDD</li> <li>3.84 Mcps TDD /REL-4/</li> <li>Not Present (Default all)</li> <li>Size1</li> <li>null</li> <li>(ASC#2)</li> <li>TDD</li> <li>3.84 Mcps TDD /REL-4/</li> <li>Not Present (Default all)</li> <li>Size1</li> </ul>                                                                                                          |

|                                             |                                                                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------|
| - Available Subchannels                     | null                                                                                   |
| - ASC Settings                              | (ASC#3)                                                                                |
| - CHOICE mode                               | TDD                                                                                    |
| - CHOICE TDD option                         | 3.84 Mcps TDD /REL-4/                                                                  |
| - Available Channelisation codes indices    | Not Present (Default all)                                                              |
| - CHOICE subchannel size                    | Size1                                                                                  |
| - Available Subchannels                     | null                                                                                   |
| - ASC Settings                              | (ASC#4)                                                                                |
| - CHOICE mode                               | TDD                                                                                    |
| - CHOICE TDD option                         | 3.84 Mcps TDD /REL-4/                                                                  |
| - Available Channelisation codes indices    | Not Present (Default all)                                                              |
| - CHOICE subchannel size                    | Size1                                                                                  |
| - Available Subchannels                     | null                                                                                   |
| - ASC Settings                              | (ASC#5)                                                                                |
| - CHOICE mode                               | TDD                                                                                    |
| - Available Channelisation codes indices    | Not Present (Default all)                                                              |
| - CHOICE subchannel size                    | Size1                                                                                  |
| - Available Subchannels                     | null                                                                                   |
| - ASC Settings                              | (ASC#6)                                                                                |
| - CHOICE mode                               | TDD                                                                                    |
| - CHOICE TDD option                         | 3.84 Mcps TDD /REL-4/                                                                  |
| - Available Channelisation codes indices    | Not Present (Default all)                                                              |
| - CHOICE subchannel size                    | Size1                                                                                  |
| - Available Subchannels                     | null                                                                                   |
| - Persistence scaling factors               |                                                                                        |
| - Access Service Class                      |                                                                                        |
| - Persistence scaling factor                | 0.9 (for ASC#2)                                                                        |
| - Persistence scaling factor                | 0.9 (for ASC#3)                                                                        |
| - Persistence scaling factor                | 0.9 (for ASC#4)                                                                        |
| - Persistence scaling factor                | 0.9 (for ASC#5)                                                                        |
| - Persistence scaling factor                | 0.9 (for ASC#6)                                                                        |
| - AC-to-ASC mapping                         | Not Present                                                                            |
| - CHOICE <i>mode</i>                        | TDD (no data)                                                                          |
| - Secondary CCPCH system information        |                                                                                        |
| - Secondary CCPCH system information        |                                                                                        |
| - Secondary CCPCH info                      |                                                                                        |
| - CHOICE <i>mode</i>                        | TDD                                                                                    |
| - Offset                                    | 0                                                                                      |
| - Common timeslot info                      |                                                                                        |
| - 2 <sup>nd</sup> interleaving mode         | Not Present (MD "Frame")                                                               |
| - TFCI coding                               | Reference clause 6.10 "Parameter Set"                                                  |
| - Puncturing limit                          | Reference clause 6.10 "Parameter Set"                                                  |
| - Repetition period                         | Not Present (MD "1")                                                                   |
| - Repetition length                         | Not present                                                                            |
| - Individual timeslot info                  |                                                                                        |
| - CHOICE TDD option                         | 3.84 Mcps TDD /REL-4/                                                                  |
| - Timeslot number                           | 1                                                                                      |
| - TFCI existence                            | Reference clause 6.10 "Parameter Set"                                                  |
| - Midamble Shift and burst type             |                                                                                        |
| - CHOICE Burst Type                         | Type 1                                                                                 |
| - Midamble Allocation Mode                  | Default midamble                                                                       |
| - Midamble configuration burst type 1 and 3 | 4                                                                                      |
| - Midamble Shift                            | Not Present                                                                            |
| - Code List                                 |                                                                                        |
| - Channelisation Code                       | Reference clause 6.10 "Parameter Set"                                                  |
| - TFCS                                      | (This IE is repeated for TFC number for PCH and FACH.)                                 |
| - Normal                                    |                                                                                        |
| - TFCI Field 1 information                  |                                                                                        |
| - CHOICE TFCS representation                | Complete reconfiguration                                                               |
| - TFCS complete reconfiguration information |                                                                                        |
| - CHOICE CTFC Size                          | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. |
| - CTFC information                          | Reference clause 6.10 "Parameter Set"                                                  |
| - Power offset information                  | Not Present                                                                            |
| - FACH/PCH information                      |                                                                                        |
| - TFS                                       | (PCH)                                                                                  |
| - CHOICE Transport channel type             | Common transport channels                                                              |
| - Dynamic Transport format information      |                                                                                        |

|                                             |                                       |
|---------------------------------------------|---------------------------------------|
| - RLC Size                                  | Reference clause 6.10 "Parameter Set" |
| - Number of TB and TTI List                 | Reference clause 6.10 "Parameter Set" |
| - Number of Transport blocks                | Reference clause 6.10 "Parameter Set" |
| - CHOICE Mode                               | TDD                                   |
| - Transmission Time Interval                | Reference clause 6.10 "Parameter Set" |
| - CHOICE Logical channel List               | ALL                                   |
| - Semi-static Transport Format information  |                                       |
| - Transmission time interval                | Reference clause 6.10 "Parameter Set" |
| - Type of channel coding                    | Reference clause 6.10 "Parameter Set" |
| - Coding Rate                               | Reference clause 6.10 "Parameter Set" |
| - Rate matching attribute                   | Reference clause 6.10 "Parameter Set" |
| - CRC size                                  | Reference clause 6.10 "Parameter Set" |
| - Transport channel Identity                | 12 (for PCH)                          |
| - CTCH indicator                            | FALSE                                 |
| - TFS                                       | (FACH)                                |
| - CHOICE Transport channel type             | Common transport channels             |
| - Dynamic Transport format information      |                                       |
| - RLC Size                                  | Reference clause 6.10 "Parameter Set" |
| - Number of TB and TTI List                 | Reference clause 6.10 "Parameter Set" |
| - Number of Transport blocks                | Reference clause 6.10 "Parameter Set" |
| - CHOICE Mode                               | TDD                                   |
| - Transmission Time Interval                | Reference clause 6.10 "Parameter Set" |
| - CHOICE Logical channel List               | ALL                                   |
| - Semi-static Transport Format information  |                                       |
| - Transmission time interval                | Reference clause 6.10 "Parameter Set" |
| - Type of channel coding                    | Reference clause 6.10 "Parameter Set" |
| - Coding Rate                               | Reference clause 6.10 "Parameter Set" |
| - Rate matching attribute                   | Reference clause 6.10 "Parameter Set" |
| - CRC size                                  | Reference clause 6.10 "Parameter Set" |
| - Transport channel Identity                | 13 (for FACH)                         |
| - TFS                                       | (FACH)                                |
| - CHOICE Transport channel type             | Common transport channels             |
| - Dynamic Transport format information      | (This IE is repeated for TFI number.) |
| - RLC Size                                  | Reference clause 6.10 "Parameter Set" |
| - Number of TB and TTI List                 | Reference clause 6.10 "Parameter Set" |
| - Number of Transport blocks                | Reference clause 6.10 "Parameter Set" |
| - CHOICE Mode                               | TDD                                   |
| - CHOICE Logical channel List               | ALL                                   |
| - Semi-static Transport Format information  |                                       |
| - Transmission time interval                | Reference clause 6.10 "Parameter Set" |
| - Type of channel coding                    | Reference clause 6.10 "Parameter Set" |
| - Coding Rate                               | Reference clause 6.10 "Parameter Set" |
| - Rate matching attribute                   | Reference clause 6.10 "Parameter Set" |
| - CRC size                                  | Reference clause 6.10 "Parameter Set" |
| - Transport channel Identity                | 14 (for FACH)                         |
| - CTCH indicator                            | FALSE                                 |
| - CTCH indicator                            | FALSE                                 |
| - PICH info                                 |                                       |
| - CHOICE <i>mode</i>                        | TDD                                   |
| - CHOICE TDD option                         | 3.84 Mcps TDD                         |
| - Timeslot number                           | 0                                     |
| - Midamble shift and burst type             |                                       |
| - CHOICE Burst Type                         | Type 1                                |
| - Midamble Allocation Mode                  | Default midamble                      |
| - Midamble configuration burst type 1 and 3 | 8                                     |
| - Midamble Shift                            | Not Present                           |
| - Channelisation code                       | 16/16                                 |
| - Repetition period/length                  | 64/2                                  |
| - Offset                                    | 0                                     |
| - Paging indicator length                   | 4                                     |
| - $N_{\text{GAP}}$                          | 4                                     |
| - $N_{\text{PCH}}$                          | 2                                     |
| - CBS DRX Level 1 information               | Not Present                           |

## Contents of System Information Block type 6 In connected mode (1.28 Mcps TDD)

|                     |       |
|---------------------|-------|
| - PICH Power offset | -5 dB |
|---------------------|-------|

|                                      |                       |
|--------------------------------------|-----------------------|
| - CHOICE Mode                        | TDD                   |
| - PUSCH system information           | Not Present           |
| - PDSCH system information           | Not Present           |
| - TDD open loop power control        |                       |
| - Primary CCPCH Tx Power             | 30 dBm                |
| - CHOICE TDD option                  | 1.28 Mcps TDD /REL-4/ |
| - Primary CCPCH info                 | Not Present           |
| - PRACH system information list      | Not Present           |
| - Secondary CCPCH system information | Not Present           |
| - CBS DRX Level 1 information        | Not Present           |

#### Contents of System Information Block type 6 in connected mode (7.68 Mcps TDD)

|                                      |             |
|--------------------------------------|-------------|
| - PICH Power offset                  | -5 dB       |
| - CHOICE Mode                        | TDD         |
| - PUSCH system information           | Not Present |
| - PDSCH system information           | Not Present |
| - TDD open loop power control        | Not present |
| - Primary CCPCH info                 | Not Present |
| - PRACH system information list      | Not Present |
| - Secondary CCPCH system information | Not Present |
| - CBS DRX Level 1 information        | Not Present |

#### Contents of System Information Block type 7 (FDD)

|                                                   |                                      |
|---------------------------------------------------|--------------------------------------|
| CHOICE Mode                                       | FDD                                  |
| - UL interference                                 | -100 dBm                             |
| - PRACHs listed in system information block type5 |                                      |
| - Dynamic persistence level                       | 2                                    |
| - PRACHs listed in system information block type6 | Not Present                          |
| - Expiration Time Factor                          | Not Present - use default value of 1 |

#### Contents of System Information Block type 7 (TDD)

|                                                 |                                      |
|-------------------------------------------------|--------------------------------------|
| CHOICE Mode                                     | TDD                                  |
| PRACHs listed in system information block type5 |                                      |
| - Dynamic persistence level                     | 2                                    |
| PRACHs listed in system information block type6 |                                      |
| - Dynamic persistence level                     | 2                                    |
| Expiration Time Factor                          | Not Present - use default value of 1 |

#### Contents of System Information Block type 8, 9 (only for FDD R99 and Rel-4)

This information is used for static CPCH in the cell, so this is not present.

#### Contents of System Information Block type 10 (only for FDD R99 and Rel-4)

This information is used for DRAC, so this is not present.

#### Contents of System Information Block type 11 (FDD)

This is the default message content of SIB 11 for cell 1.

See clause 6.1.4 for the difference in message contents of System Information Block type 11 (FDD) for cell 2 to 8.

See clause 6.1.4.3 for the difference in message contents of System information Block type 11(FDD) for cell 21 to 28

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- SIB12 indicator</li> <li>- FACH measurement occasion info</li> <li>- Measurement control system information</li> <li>- Use of HCS</li> <li>- Cell selection and reselection quality measure</li> <li>- <b>Intra-frequency measurement system information</b> <ul style="list-style-type: none"> <li>- Intra-frequency measurement identity</li> </ul> </li> <li>- Intra-frequency cell info list</li> <li>- CHOICE intra-frequency cell removal</li> <li>- New intra-frequency cells <ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> </ul> </li> <li>- Reference time difference to cell</li> <li>- Read SFN indicator</li> <li>- CHOICE mode <ul style="list-style-type: none"> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> </ul> </li> <li>- Primary CPICH TX power</li> <li>- TX Diversity indicator</li> <li>- Cell Selection and Re-selection info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN indicator</li> <li>- CHOICE mode <ul style="list-style-type: none"> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> </ul> </li> <li>- Primary CPICH TX power</li> <li>- TX Diversity indicator</li> <li>- Cell Selection and Re-selection info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul> | A1, A2, A3 | TRUE<br>Not Present                                                                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1, A2, A3 | Not used<br>CPICH RSCP                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | Not Present<br>Absence of this IE is equivalent to default value 1                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | Not present<br>(This IE shall be ignored by the UE for SIB11)                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 1                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | Not present<br>Absence of this IE is equivalent to default value 0 dB                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | Not Present<br>FALSE<br>FDD                                                                                                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4<br>Not Present<br>FALSE<br>Not Present<br>(The IE shall be absent as this is the serving cell)                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 2                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | Not present<br>Absence of this IE is equivalent to default value 0dB<br>Not present<br>TRUE<br>FDD                                                                                                                                                                                                |
| - Intra-frequency cell id<br>- Cell info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4<br>Not Present<br>FALSE<br>Not present<br>For neighbouring cell, if HCS is not used and all the parameters in cell selection and re-selection info are Default value, this IE is absent.                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 3<br>Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4                                                                                 |
| - Intra-frequency cell id<br>- Cell info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A1, A3     | 7<br>Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4<br>Note that this cell can also be configured as an inter-frequency cell on f3. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1, A3     | 8<br>Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4<br>Note that this cell can also be configured as an inter-frequency cell on f3. |
| - Intra-frequency cell id                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A3         | 11                                                                                                                                                                                                                                                                                                |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          | Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.11 (FDD)" in clause 6.1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>- Cells for measurement</li> <li>- Intra-frequency measurement quantity</li> <li>- Filter coefficient</li> <li>- CHOICE mode</li> <li>- Measurement quantity</li> <li>- Intra-frequency reporting quantity for RACH Reporting</li> <li>- Maximum number of reported cells on RACH</li> <li>- Reporting information for state CELL_DCH</li> <li>- Intra-frequency reporting quantity</li> <li>- Reporting quantities for active set cells</li> <li>- Cell synchronization information reporting indicator</li> <li>- Cell identity reporting indicator</li> <li>- CHOICE mode</li> <li>- CPICH Ec/N0 reporting indicator</li> <li>- CPICH RSCP reporting indicator</li> <li>- Pathloss reporting indicator</li> <li>- Reporting quantities for monitored set cells</li> <li>- Cell synchronization information reporting indicator</li> <li>- Cell identity reporting indicator</li> <li>- CHOICE mode</li> <li>- CPICH Ec/N0 reporting indicator</li> <li>- CPICH RSCP reporting indicator</li> <li>- Pathloss reporting indicator</li> <li>- Reporting quantities for detected set cells</li> <li>- Measurement reporting mode</li> <li>- Measurement Report Transfer Mode</li> <li>- Periodic Reporting/Event Trigger Reporting Mode</li> <li>- CHOICE report criteria</li> <li>- Intra-frequency measurement reporting criteria</li> <li>- Parameters required for each event</li> <li>- Intra-frequency event identity</li> <li>- Triggering condition 1</li> <li>- Triggering condition 2</li> <li>- Reporting Range Constant</li> <li>- Cells forbidden to affect Reporting range</li> <li>- W</li> <li>- Hysteresis</li> <li>- Threshold Used Frequency</li> <li>- Reporting deactivation threshold</li> <li>- Replacement activation threshold</li> <li>- Time to trigger</li> <li>- Amount of reporting</li> <li>- Reporting interval</li> <li>- Reporting cell status</li> <li>- CHOICE reported cell</li> <li>- Maximum number of reported cells</li> <li>- Intra-frequency event identity</li> <li>- Triggering condition 1</li> <li>- Triggering condition 2</li> <li>- Reporting Range Constant</li> <li>- Cells forbidden to affect Reporting range</li> <li>- W</li> <li>- Hysteresis</li> <li>- Threshold Used Frequency</li> <li>- Reporting deactivation threshold</li> </ul> | A1, A2, A3<br>A1, A2, A3 | Not Present<br><br>Not present<br>Absence of this IE is equivalent to the default value 0<br>FDD<br>CPICH RSCP<br>Not Present<br><br>Not Present<br><br>FALSE<br><br>TRUE<br>FDD<br>FALSE<br>TRUE<br>FALSE<br><br>TRUE<br><br>TRUE<br>FDD<br>FALSE<br>TRUE<br>FALSE<br>Not Present<br><br>Acknowledged mode RLC<br>Event trigger<br>Intra-frequency measurement reporting criteria<br><br>3 kinds<br>1a<br>Not Present<br>Monitored set cells<br>10 (5dB)<br>Not Present<br>1(0.1): 34.123 test cases<br>10(1.0): 34.121 test cases<br>0 (0.0)<br>Not Present<br>2<br>Not Present<br>640<br>4<br>4 000<br><br>Report cell within active set and/or monitored set cells on used frequency<br>3<br>1b<br>Active set cells<br>Not Present<br>10 (5dB)<br>Not Present<br>1 (0.1): 34.123 test cases<br>10(1.0): 34.121 test cases<br>0 (0.0)<br>Not Present<br>Not Present |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Replacement activation threshold</li> <li>- Time to trigger</li> <li>- Amount of reporting</li> <li>- Reporting interval</li> <li>- Reporting cell status</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        | <ul style="list-style-type: none"> <li>Not Present</li> <li>640</li> <li>Not Present</li> <li>Not Present</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>- CHOICE reported cell</li> <li>- Maximum number of reported cells</li> <li>- Intra-frequency event identity</li> <li>- Triggering condition 1</li> <li>- Triggering condition 2</li> <li>- Reporting Range Constant</li> <li>- Cells forbidden to affect Reporting range</li> <li>- W</li> <li>- Hysteresis</li> <li>- Threshold Used Frequency</li> <li>- Reporting deactivation threshold</li> <li>- Replacement activation threshold</li> <li>- Time to trigger</li> <li>- Amount of reporting</li> <li>- Reporting interval</li> <li>- Reporting cell status</li> <li>- CHOICE reported cell</li> <li>- Maximum number of reported cells</li> <li>- <b>Inter-frequency measurement system information</b></li> <li>- Inter-frequency cell info list</li> <li>- CHOICE Inter-frequency cell removal</li> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- CHOICE mode</li> <li>- UARFCN uplink(Nu)</li> <li>- UARFCN downlink(Nd)</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN indicator</li> <li>- CHOICE mode</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- Primary CPICH Tx power</li> <li>- TX Diversity Indicator</li> <li>- Cell Selection and Re-selection Info</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul> | A1, A2 | <ul style="list-style-type: none"> <li>Report cell within active set and/or monitored set cells on used frequency</li> <li>3</li> <li>1c</li> <li>Not Present</li> <li>Not Present</li> <li>Not Present</li> <li>Not Present</li> <li>Not Present</li> <li>0 (0.0)</li> <li>Not Present</li> <li>Not Present</li> <li>3</li> <li>640</li> <li>4</li> <li>4 000</li> <li>Report cell within active set and/or monitored set cells on used frequency</li> <li>3</li> <li>Not present<br/>(This IE shall be ignored by the UE for SIB11)</li> <li>4</li> <li>FDD</li> <li>Not present</li> <li>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11]</li> <li>Reference to table 6.1.2 for Cell 4</li> <li>Not present</li> <li>Absence of this IE is equivalent to default value 0 dB</li> <li>Not present</li> <li>FALSE</li> <li>FDD</li> <li>Refer to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4</li> <li>Not present</li> <li>FALSE</li> <li>Not present (same values as for serving cell applies)</li> <li>5</li> <li>Not Present</li> <li>Absence of this IE is equivalent to value of the previous "frequency info" in the list.</li> <li>Same content as specified for Inter-frequency cell id=4 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4</li> <li>6</li> <li>Not Present</li> <li>Absence of this IE is equivalent to value of the previous "frequency info" in the list.</li> </ul> |





|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Timeslot list</li> <li>- CHOICE TDD option <ul style="list-style-type: none"> <li>- 3.84 Mcps TDD <ul style="list-style-type: none"> <li>- Timeslot number</li> <li>- Burst type</li> </ul> </li> <li>- 1.28 Mcps TDD <ul style="list-style-type: none"> <li>- Timeslot number</li> </ul> </li> </ul> </li> <li>- Cell Selection and Re-selection info</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             | <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>(The IE shall be absent as this is the serving cell)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN Indicator</li> <li>- CHOICE mode</li> <li>- Primary CCPCH info</li> <li>- Cell parameters ID</li> <li>- Primary CCPCH TX power</li> <li>- Timeslot list</li> <li>- CHOICE TDD option <ul style="list-style-type: none"> <li>- 3.84 Mcps TDD <ul style="list-style-type: none"> <li>- Timeslot number</li> <li>- Burst type</li> </ul> </li> <li>- 1.28 Mcps TDD <ul style="list-style-type: none"> <li>- Timeslot number</li> </ul> </li> </ul> </li> <li>- Cell Selection and Re-selection info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul>                                                                                                                                                                                   |                             | <p>2</p> <p>Not present</p> <p>Absence of this IE is equivalent to default value 0dB</p> <p>Not Present</p> <p>FALSE</p> <p>TDD</p> <p>Refer to clause titled "Default setting for cell No.2 (TDD)" in clause 6.1.4</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>3</p> <p>Same content as specified for intra-frequency cell id=2 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.3(TDD)" in clause 6.1.4</p> <p>7</p> <p>Same content as specified for intra-frequency cell id=2 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.7(TDD)" in clause 6.1.4</p> <p>8</p> <p>Same content as specified for intra-frequency cell id=2 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.8(TDD)" in clause 6.1.4</p> |
| <ul style="list-style-type: none"> <li>- Cell for measurement</li> <li>- Intra-frequency measurement quantity</li> <li>- Filter coefficient</li> <li>- CHOICE mode</li> <li>- Measurement quantity list <ul style="list-style-type: none"> <li>- Measurement quantity</li> </ul> </li> <li>- Intra-frequency reporting quantity for RACH Reporting</li> <li>- Maximum number of reported cells on RACH</li> <li>- Reporting information for state CELL_DCH</li> <li>- Intra-frequency reporting quantity</li> <li>- Reporting quantities for active set cells</li> <li>- Cell synchronization information reporting indicator</li> <li>- Cell identity reporting indicator</li> <li>- CHOICE mode</li> <li>- Timeslot ISCP reporting indicator</li> <li>- Proposed TSGN reporting required</li> <li>- P-CCPCH RSCP reporting indicator</li> <li>- Pathloss reporting indicator</li> <li>- Reporting quantities for monitored set cells</li> <li>- Cell synchronization information reporting indicator</li> <li>- Cell identity reporting indicator</li> </ul> | <p>A1, A2</p> <p>A1, A2</p> | <p>Not Present</p> <p>Not present</p> <p>Absence of this IE is equivalent to the default value 0</p> <p>TDD</p> <p>P-CCPCH RSCP</p> <p>Not Present</p> <p>Not Present</p> <p>TRUE</p> <p>TRUE</p> <p>TDD</p> <p>FALSE</p> <p>FALSE</p> <p>TRUE</p> <p>FALSE</p> <p>FALSE</p> <p>TRUE</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- CHOICE mode</li> <li>- Timeslot ISCP reporting indicator</li> <li>- Proposed TSGN reporting required</li> <li>- P-CCPCH RSCP reporting indicator</li> <li>- Pathloss reporting indicator</li> <li>- Reporting quantities for detected set cells</li> <li>- Measurement reporting mode</li> <li>- Measurement Report Transfer Mode</li> <li>- Periodical Reporting / Event Trigger Reporting Mode</li> <li>-CHOICE report criteria <ul style="list-style-type: none"> <li>- Intra-frequency measurement reporting criteria</li> <li>- Parameters required for each event</li> <li>- Intra-frequency event identity</li> <li>- Triggering condition1</li> <li>- Triggering condition2</li> <li>- Reporting Range Constant</li> <li>- cells forbidden to affect reporting range</li> <li>- W(optional in case of 1a,1b)</li> <li>- Hysteresis</li> <li>- Threshold used frequency</li> <li>- Reporting deactivation threshold</li> <li>- Replacement activation threshold</li> <li>- Time to trigger</li> <li>- Amount of reporting</li> <li>- Reporting interval</li> <li>- Reporting cell status</li> <li>- CHOICE reported cells</li> </ul> </li> <li>- Maximum number of reported cells</li> <li>- Inter-frequency measurement system information</li> <li>- Inter-frequency cell info list</li> <li>- CHOICE Inter-frequency cell removal <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- CHOICE mode</li> <li>- UARFCN (Nt)</li> <li>- Cell info</li> <li>- Cell individual offset</li> </ul> </li> <li>- Reference time difference to cell</li> </ul> | A1, A2 | TDD<br>FALSE<br>FALSE<br>TRUE<br>FALSE<br>Not Present<br><br>Acknowledged mode RLC<br>Event trigger<br><br>1g<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>0.0<br>Not Present<br>3<br>Not Present<br>640<br>4<br>4000<br><br>Report cell within active set and/or monitored cells on used frequency<br>3<br><br>Not present<br>(This IE shall be ignored by the UE for SIB11)<br>4<br><br>TDD<br>Reference to table 6.1.7 for Cell 4<br><br>Not present<br>Absence of this IE is equivalent to default value 0dB<br>Not present                                                                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>- Read SFN indicator</li> <li>- CHOICE mode</li> <li>- Primary CCPCH info <ul style="list-style-type: none"> <li>- Primary CCPCH Tx power</li> <li>- TX Diversity Indicator</li> <li>- Cell Selection and Re-selection Info</li> </ul> </li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> <li>- Cell for measurement</li> <li>- Inter-RAT measurement system information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A1     | FALSE<br>TDD<br>Refer to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4<br>Not present<br>FALSE<br>Not present (same values as for serving cell applies)<br>5<br>Not Present<br>Absence of this IE is equivalent to value of the previous "frequency info" in the list.<br>Same content as specified for Inter-frequency cell id=4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4<br>6<br>Not Present<br>Absence of this IE is equivalent to value of the previous "frequency info" in the list.<br>Same content as specified for Inter-frequency cell id=4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4<br>Not present<br>Not Present |

|                                                 |        |                                                |
|-------------------------------------------------|--------|------------------------------------------------|
| - Inter-RAT measurement system information      | A2     |                                                |
| - Inter-RAT cell info list                      |        | Not Present                                    |
| - CHOICE <i>Inter-RAT cell removal</i>          |        | (This IE shall be ignored by the UE for SIB11) |
| - New inter-RAT cells                           |        | 9                                              |
| - Inter-RAT cell id                             |        | GSM                                            |
| - CHOICE <i>Radio Access Technology</i>         |        |                                                |
| - GSM                                           |        | 0                                              |
| - Cell individual offset                        |        | Not Present                                    |
| - Cell selection and re-selection info          |        |                                                |
| - BSIC                                          |        |                                                |
| - Base transceiver Station Identity Code (BSIC) |        | Reference to table 6.1.10 for Cell 9           |
| - Band indicator                                |        | According to PICS/PIXIT                        |
| - BCCH ARFCN                                    |        | Reference to table 6.1.10 for Cell 9           |
| - Inter-RAT cell id                             |        | 10                                             |
| - CHOICE <i>Radio Access Technology</i>         |        | GSM                                            |
| - GSM                                           |        | 0                                              |
| - Cell individual offset                        |        | Not Present                                    |
| - Cell selection and re-selection info          |        |                                                |
| - BSIC                                          |        |                                                |
| - Base transceiver Station Identity Code (BSIC) |        | Reference to table 6.1.10 for Cell 10          |
| - Band indicator                                |        | According to PICS/PIXITs                       |
| - BCCH ARFCN                                    |        | Reference to table 6.1.10 for Cell 10          |
| - Cell for measurement                          |        | Not present                                    |
| - Traffic volume measurement system information | A1, A2 | Not Present                                    |

| Condition | Explanation                        |
|-----------|------------------------------------|
| A1        | TDD cell environment               |
| A2        | TDD/GSM inter-RAT cell environment |

#### Contents of System Information Block type 12 in connected mode (FDD)

This is the default message content of SIB 12 for cell 1.

See clause 6.1.4 for the difference in message contents of System Information Block type 12 (FDD) for cell 2 to 8.

|                                                         |             |
|---------------------------------------------------------|-------------|
| - FACH measurement occasion info                        | Not Present |
| - Measurement control system information                |             |
| - Use of HCS                                            | Not used    |
| - Cell selection and reselection quality measure        | CPICH RSCP  |
| - Intra-frequency measurement system information        | Not Present |
| - <b>Inter-frequency measurement system information</b> | Not Present |
| - Inter-RAT measurement system information              | Not Present |
| - Traffic volume measurement system information         | Not Present |

#### Contents of System Information Block type 12 in connected mode (3.84 Mcps, 1.28 Mcps and 7.68 Mcps TDD)

This is the default message content of SIB 12 for cell 1.

See clause 6.1.4 for the difference in message contents of System Information Block type 12 (TDD) for cell 2 to 8.

|                                                  |             |
|--------------------------------------------------|-------------|
| - FACH measurement occasion info                 | Not Present |
| - Measurement control system information         |             |
| - Use of HCS                                     | Not used    |
| - Cell selection and reselection quality measure | CPICH RSCP  |
| - Intra-frequency measurement system information | Not Present |
| - Inter-RAT measurement system information       | Not Present |
| - Traffic volume measurement system information  | Not Present |

#### Contents of System Information Block type 13 (used when supported PLMN type is ANSI-41)

|                                                      |                                    |
|------------------------------------------------------|------------------------------------|
| - CN Domain system information list                  |                                    |
| - CN Domain system information                       | <i>For Packet-Switched domain</i>  |
| - CN domain identity                                 | PS                                 |
| - CHOICE CN Type                                     | ANSI-41                            |
| - CN domain specific NAS system information          |                                    |
| - NAS (ANSI-41) system information                   | T.B.D                              |
| - CN domain specific DRX cycle length coefficient    | 7                                  |
| - CN Domain system information                       | <i>For Circuit-Switched domain</i> |
| - CN domain identity                                 | CS                                 |
| - CHOICE CN Type                                     | ANSI-41                            |
| - CN domain specific NAS system information          |                                    |
| - NAS (ANSI-41) system information                   | T.B.D                              |
| - CN domain specific DRX cycle length coefficient    | 7                                  |
| - UE timers and constants in idle mode               |                                    |
| - T300                                               | 400 milliseconds                   |
| - N300                                               | 3                                  |
| - T312                                               | 10 seconds                         |
| - N312                                               | 200                                |
| - Capability update requirement                      |                                    |
| - UE radio access FDD capability update requirement  | TRUE                               |
| - UE radio access TDD capability update requirement  | FALSE                              |
| - System specific capability update requirement list | Not Present                        |

## Contents of System Information Block type 14 (3.84 Mcps and 7.68 Mcps TDD)

|                                         |                      |
|-----------------------------------------|----------------------|
| - Individual Timeslot interference list |                      |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 2                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 3                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 4                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 5                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 6                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 7                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 9                    |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 10                   |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 11                   |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 12                   |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 13                   |
| - UL Timeslot Interference              | -90 dbm              |
| - Individual Timeslot interference      |                      |
| - Timeslot number                       | 14                   |
| - UL Timeslot Interference              | -90 dbm              |
| - Expiration Time Factor                | Not Present (MD "1") |

## Contents of System Information Block type 16 (FDD)

|                                            |                              |
|--------------------------------------------|------------------------------|
| - Pre-Defined Radio Configuration          | (12.2 KBPS AMR)              |
| - Pre-defined RB configuration             |                              |
| - Re-establishment timer                   | useT315                      |
| - SRB InformationList                      |                              |
| - Signalling RB information to setup       | (UM DCCH for RRC)            |
| - RB identity                              | 1                            |
| - CHOICE RLC info type                     |                              |
| - RLC info                                 |                              |
| - CHOICE Uplink RLC mode                   | UM RLC                       |
| - Transmission RLC discard                 | timerBasedNoExplicit : dt100 |
| - CHOICE Downlink RLC mode                 | UM RLC                       |
| - RB mapping info                          |                              |
| - Information for each multiplexing option |                              |
| - RLC logical channel mapping indicator    | Not Present                  |
| - Number of RLC logical channels           | 1                            |
| - Uplink transport channel type            | DCH                          |
| - UL Transport channel identity            | 5                            |
| - Logical channel identity                 | 1                            |
| - CHOICE RLC size list                     | Configured                   |
| - MAC logical channel priority             | 1                            |
| - Downlink RLC logical channel info        |                              |
| - Number of RLC logical channels           | 1                            |
| - Downlink transport channel type          | DCH                          |
| - DL DCH Transport channel identity        | 10                           |
| - DL DSCH Transport channel identity       | Not Present                  |
| - Logical channel identity                 | 1                            |
| - Signalling RB information to setup       | (AM DCCH for RRC)            |
| - RB identity                              | 2                            |
| - CHOICE RLC info type                     |                              |
| - RLC info                                 |                              |
| - CHOICE Uplink RLC mode                   | AM RLC                       |
| - Transmission RLC discard                 |                              |
| - SDU discard mode                         | Max DAT retransmissions      |
| - MAX_DAT                                  | 4                            |
| - Timer_MRW                                | 100                          |
| - MaxMRW                                   | 4                            |
| - Transmission window size                 | 8                            |
| - Timer_RST                                | 500                          |
| - Max_RST                                  | 4                            |
| - Polling info                             |                              |
| - Timer_poll_prohibit                      | 200                          |
| - Timer_poll                               | 200                          |
| - Poll_PDU                                 | Not Present                  |
| - Poll_SDU                                 | 1                            |
| - Last transmission PDU poll               | TRUE                         |
| - Last retransmission PDU poll             | TRUE                         |
| - Poll_Window                              | 99                           |
| - Timer_poll_periodic                      | Not Present                  |
| - CHOICE Downlink RLC mode                 | AM RLC                       |
| - In-sequence delivery                     | TRUE                         |
| - Receiving window size                    | 8                            |
| - Downlink RLC status info                 |                              |
| - Timer_status_prohibit                    | 200                          |
| - Timer_EPC                                | 200                          |
| - Missing PDU indicator                    | TRUE                         |
| - Timer_STATUS_periodic                    | Not Present                  |
| - RB mapping info                          |                              |
| - Information for each multiplexing option |                              |
| - RLC logical channel mapping indicator    | Not Present                  |
| - Number of RLC logical channels           | 1                            |
| - Uplink transport channel type            | DCH                          |
| - UL Transport channel identity            | 5                            |
| - Logical channel identity                 | 2                            |
| - CHOICE RLC size list                     | Configured                   |
| - MAC logical channel priority             | 2                            |
| - Downlink RLC logical channel info        |                              |
| - Number of RLC logical channels           | 1                            |
| - Downlink transport channel type          | DCH                          |

|                                            |                         |
|--------------------------------------------|-------------------------|
| - DL DCH Transport channel identity        | 10                      |
| - DL DSCH Transport channel identity       | Not Present             |
| - Logical channel identity                 | 2                       |
| - Signalling RB information to setup       | (AM DCCH for RRC)       |
| - RB identity                              | 3                       |
| - CHOICE RLC info type                     |                         |
| - RLC info                                 |                         |
| - CHOICE Uplink RLC mode                   | AM RLC                  |
| - Transmission RLC discard                 |                         |
| - SDU discard mode                         | Max DAT retransmissions |
| - MAX_DAT                                  | 4                       |
| - Timer_MRW                                | 100                     |
| - MaxMRW                                   | 4                       |
| - Transmission window size                 | 8                       |
| - Timer_RST                                | 500                     |
| - Max_RST                                  | 4                       |
| - Polling info                             |                         |
| - Timer_poll_prohibit                      | 200                     |
| - Timer_poll                               | 200                     |
| - Poll_PDU                                 | Not Present             |
| - Poll_SDU                                 | 1                       |
| - Last transmission PDU poll               | TRUE                    |
| - Last retransmission PDU poll             | TRUE                    |
| - Poll_Window                              | 99                      |
| - Timer_poll_periodic                      | Not Present             |
| - CHOICE Downlink RLC mode                 | AM RLC                  |
| - In-sequence delivery                     | TRUE                    |
| - Receiving window size                    | 8                       |
| - Downlink RLC status info                 |                         |
| - Timer_status_prohibit                    | 200                     |
| - Timer_EPC                                | 200                     |
| - Missing PDU indicator                    | TRUE                    |
| - Timer_STATUS_periodic                    | Not Present             |
| - RB mapping info                          |                         |
| - Information for each multiplexing option |                         |
| - RLC logical channel mapping indicator    | Not Present             |
| - Number of RLC logical channels           | 1                       |
| - Uplink transport channel type            | DCH                     |
| - UL Transport channel identity            | 5                       |
| - Logical channel identity                 | 3                       |
| - CHOICE RLC size list                     | Configured              |
| - MAC logical channel priority             | 3                       |
| - Downlink RLC logical channel info        |                         |
| - Number of RLC logical channels           | 1                       |
| - Downlink transport channel type          | DCH                     |
| - DL DCH Transport channel identity        | 10                      |
| - DL DSCH Transport channel identity       | Not Present             |
| - Logical channel identity                 | 3                       |
| - Signalling RB information to setup       | (AM DCCH for RRC)       |
| - RB identity                              | 4                       |
| - CHOICE RLC info type                     |                         |
| - RLC info                                 |                         |
| - CHOICE Uplink RLC mode                   | AM RLC                  |
| - Transmission RLC discard                 |                         |
| - SDU discard mode                         | Max DAT retransmissions |
| - MAX_DAT                                  | 4                       |
| - Timer_MRW                                | 100                     |
| - MaxMRW                                   | 4                       |
| - Transmission window size                 | 8                       |
| - Timer_RST                                | 500                     |
| - Max_RST                                  | 4                       |
| - Polling info                             |                         |
| - Timer_poll_prohibit                      | 200                     |
| - Timer_poll                               | 200                     |
| - Poll_PDU                                 | Not Present             |
| - Poll_SDU                                 | 1                       |
| - Last transmission PDU poll               | TRUE                    |
| - Last retransmission PDU poll             | TRUE                    |

|                                            |             |
|--------------------------------------------|-------------|
| - Poll_Window                              | 99          |
| - Timer_poll_periodic                      | Not Present |
| - CHOICE Downlink RLC mode                 | AM RLC      |
| - In-sequence delivery                     | TRUE        |
| - Receiving window size                    | 8           |
| - Downlink RLC status info                 |             |
| - Timer_status_prohibit                    | 200         |
| - Timer_EPC                                | 200         |
| - Missing PDU indicator                    | TRUE        |
| - Timer_STATUS_periodic                    | Not Present |
| - RB mapping info                          |             |
| - Information for each multiplexing option |             |
| - RLC logical channel mapping indicator    | Not Present |
| - Number of RLC logical channels           | 1           |
| - Uplink transport channel type            | DCH         |
| - UL Transport channel identity            | 5           |
| - Logical channel identity                 | 4           |
| - CHOICE RLC size list                     | Configured  |
| - MAC logical channel priority             | 4           |
| - Downlink RLC logical channel info        |             |
| - Number of RLC logical channels           | 1           |
| - Downlink transport channel type          | DCH         |
| - DL DCH Transport channel identity        | 10          |
| - DL DSCH Transport channel identity       | Not Present |
| - Logical channel identity                 | 4           |
| - RAB information for setup                |             |
| - RB information to setup                  |             |
| - RB identity                              | 10          |
| - PDCP info                                | Not Present |
| - CHOICE RLC info type                     | RLC info    |
| - CHOICE Uplink RLC mode                   | TM RLC      |
| - Transmission RLC discard                 | Not Present |
| - Segmentation indication                  | TRUE        |
| - CHOICE Downlink RLC mode                 | TM RLC      |
| - Segmentation indication                  | TRUE        |
| - RB mapping info                          |             |
| - Information for each multiplexing option |             |
| - RLC logical channel mapping indicator    | Not Present |
| - Number of uplink RLC logical channels    | 1           |
| - Uplink transport channel type            | DCH         |
| - UL Transport channel identity            | 1           |
| - Logical channel identity                 | 7           |
| - CHOICE RLC size list                     | Configured  |
| - MAC logical channel priority             | 6           |
| - Downlink RLC logical channel info        |             |
| - Number of downlink RLC logical channels  | 1           |
| - Downlink transport channel type          | DCH         |
| - DL DCH Transport channel identity        | 6           |
| - DL DSCH Transport channel identity       | Not Present |
| - Logical channel identity                 | 7           |
| - RB identity                              | 11          |
| - PDCP info                                | Not Present |
| - CHOICE RLC info type                     | RLC info    |
| - CHOICE Uplink RLC mode                   | TM RLC      |
| - Transmission RLC discard                 | Not Present |
| - Segmentation indication                  | TRUE        |
| - CHOICE Downlink RLC mode                 | TM RLC      |
| - Segmentation indication                  | TRUE        |
| - RB mapping info                          |             |
| - Information for each multiplexing option |             |
| - RLC logical channel mapping indicator    | Not Present |
| - Number of uplink RLC logical channels    | 1           |
| - Uplink transport channel type            | DCH         |
| - UL Transport channel identity            | 2           |
| - Logical channel identity                 | 8           |
| - CHOICE RLC size list                     | Configured  |
| - MAC logical channel priority             | 6           |
| - Downlink RLC logical channel info        |             |

|                                               |                                                                                                                |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| - Number of downlink RLC logical channels     | 1                                                                                                              |
| - Downlink transport channel type             | DCH                                                                                                            |
| - DL DCH Transport channel identity           | 7                                                                                                              |
| - DL DSCH Transport channel identity          | Not Present                                                                                                    |
| - Logical channel identity                    | 8                                                                                                              |
| - RB identity                                 | 12                                                                                                             |
| - PDCP info                                   | Not Present                                                                                                    |
| - CHOICE RLC info type                        | RLC info                                                                                                       |
| - CHOICE Uplink RLC mode                      | TM RLC                                                                                                         |
| - Transmission RLC discard                    | Not Present                                                                                                    |
| - Segmentation indication                     | TRUE                                                                                                           |
| - CHOICE Downlink RLC mode                    | TM RLC                                                                                                         |
| - Segmentation indication                     | TRUE                                                                                                           |
| - RB mapping info                             |                                                                                                                |
| - Information for each multiplexing option    |                                                                                                                |
| - RLC logical channel mapping indicator       | Not Present                                                                                                    |
| - Number of uplink RLC logical channels       | 1                                                                                                              |
| - Uplink transport channel type               | DCH                                                                                                            |
| - UL Transport channel identity               | 3                                                                                                              |
| - Logical channel identity                    | 9                                                                                                              |
| - CHOICE RLC size list                        | Configured                                                                                                     |
| - MAC logical channel priority                | 6                                                                                                              |
| - Downlink RLC logical channel info           |                                                                                                                |
| - Number of downlink RLC logical channels     | 1                                                                                                              |
| - Downlink transport channel type             | DCH                                                                                                            |
| - DL DCH Transport channel identity           | 8                                                                                                              |
| - DL DSCH Transport channel identity          | Not Present                                                                                                    |
| - Logical channel identity                    | 9                                                                                                              |
| - Pre-Defined Transport Channel Configuration |                                                                                                                |
| - UL CommonTransChInfo                        |                                                                                                                |
| - UL TFCS                                     |                                                                                                                |
| - TFC subset                                  | Default value is the complete existing set of transport format combinations                                    |
| - Allowed Transport Format combination        | 0,1,2,3,4,5                                                                                                    |
| - PRACH TFCS                                  | Not Present                                                                                                    |
| - CHOICE mode                                 | FDD                                                                                                            |
| - CHOICE TFCI signalling                      | Normal                                                                                                         |
| - TFCI Field 1 information                    |                                                                                                                |
| - CHOICE TFCS representation                  | Addition                                                                                                       |
| - TFCS addition configure information         |                                                                                                                |
| - CHOICE TFCS Size                            | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4.1.4.1 Parameter Set. |
| - CTFC information                            | This IE is repeated for TFC numbers and reference to clause 6.10.2.4.1.4.1 Parameter Set                       |
| - Power offset information                    |                                                                                                                |
| - CHOICE Gain Factors                         | Signalled Gain Factor                                                                                          |
| - CHOICE mode                                 | FDD                                                                                                            |
| - Gain factor $\beta_c$                       | 0                                                                                                              |
| - Gain factor $\beta_d$                       | 0                                                                                                              |
| - Reference TFC ID                            | 0                                                                                                              |
| - Power offset Pp-m                           | 0 dB                                                                                                           |
| - Reference TFC ID                            | 0                                                                                                              |
| - Power offset Pp-m                           | 0 dB                                                                                                           |
| - Added or Reconfigured UL TrCH information   | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH)                                                                       |
| - Uplink transport channel type               | DCH                                                                                                            |
| - UL Transport channel identity               | 1                                                                                                              |
| - TFS                                         |                                                                                                                |
| - CHOICE Transport channel type               | Dedicated transport channels                                                                                   |
| - Dynamic Transport format information        |                                                                                                                |
| - RLC Size                                    | Reference to clause 6.10.2.4.1.4.1 Parameter Set (This IE is repeated for TFI number.)                         |
| - Number of TBs and TTI List                  | Not Present                                                                                                    |
| - Transmission Time Interval                  |                                                                                                                |
| - Number of Transport blocks                  | Reference to clause 6.10.2.4.1.4.1 Parameter Set                                                               |
| - CHOICE Logical channel list                 | All                                                                                                            |
| - Semi-static Transport Format information    |                                                                                                                |
| - Transmission time interval                  | Reference to clause 6.10.2.4.1.4.1 Parameter Set                                                               |
| - Type of channel coding                      | Reference to clause 6.10.2.4.1.4.1 Parameter Set                                                               |



|                                             |                                                  |
|---------------------------------------------|--------------------------------------------------|
| - Coding Rate                               | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Rate matching attribute                   | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - CRC size                                  | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Uplink transport channel type             | DCH                                              |
| - UL Transport channel identity             | 2                                                |
| - TFS                                       |                                                  |
| - CHOICE Transport channel type             | Dedicated transport channels                     |
| - Dynamic Transport format information      |                                                  |
| - RLC Size                                  | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Number of TBs and TTI List                | (This IE is repeated for TFI number.)            |
| - Transmission Time Interval                | Not Present                                      |
| - Number of Transport blocks                | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - CHOICE Logical channel list               | All                                              |
| - Semi-static Transport Format information  |                                                  |
| - Transmission time interval                | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Type of channel coding                    | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Coding Rate                               | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Rate matching attribute                   | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - CRC size                                  | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Uplink transport channel type             | DCH                                              |
| - UL Transport channel identity             | 3                                                |
| - TFS                                       |                                                  |
| - CHOICE Transport channel type             | Dedicated transport channels                     |
| - Dynamic Transport format information      |                                                  |
| - RLC Size                                  | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Number of TBs and TTI List                | (This IE is repeated for TFI number.)            |
| - Transmission Time Interval                | Not Present                                      |
| - Number of Transport blocks                | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - CHOICE Logical channel list               | All                                              |
| - Semi-static Transport Format information  |                                                  |
| - Transmission time interval                | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Type of channel coding                    | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Coding Rate                               | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Rate matching attribute                   | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - CRC size                                  | Reference to clause 6.10.2.4.1.4.1 Parameter Set |
| - Uplink transport channel type             | DCH                                              |
| - UL Transport channel identity             | 5                                                |
| - TFS                                       |                                                  |
| - CHOICE Transport channel type             | Dedicated transport channels                     |
| - Dynamic Transport format information      |                                                  |
| - RLC Size                                  | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - Number of TBs and TTI List                | (This IE is repeated for TFI number.)            |
| - Transmission Time Interval                | Not Present                                      |
| - Number of Transport blocks                | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - CHOICE Logical channel list               | All                                              |
| - Semi-static Transport Format information  |                                                  |
| - Transmission time interval                | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - Type of channel coding                    | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - Coding Rate                               | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - Rate matching attribute                   | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - CRC size                                  | Reference to clause 6.10.2.4.1.2.1 Parameter Set |
| - DL CommonTransChInfo                      |                                                  |
| - SCCPCH TFCS                               | Not Present                                      |
| - CHOICE mode                               | FDD                                              |
| - CHOICE DL parameters                      | SameasUL                                         |
| - Added or Reconfigured DL TrCH information | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH)         |
| - Downlink transport channel type           | DCH                                              |
| - DL Transport channel identity             | 6                                                |
| - CHOICE DL parameters                      | Same as UL                                       |
| - Uplink transport channel type             | DCH                                              |
| - UL TrCH identity                          | 1                                                |
| - DCH quality target                        |                                                  |
| - BLER Quality value                        | 0                                                |
| - Downlink transport channel type           | DCH                                              |
| - DL Transport channel identity             | 7                                                |
| - CHOICE DL parameters                      | Same as UL                                       |
| - Uplink transport channel type             | DCH                                              |
| - UL TrCH identity                          | 2                                                |

|                                              |            |
|----------------------------------------------|------------|
| - DCH quality target                         |            |
| - BLER Quality value                         | 0          |
| - Downlink transport channel type            | DCH        |
| - DL Transport channel identity              | 8          |
| - CHOICE DL parameters                       | Same as UL |
| - Uplink transport channel type              | DCH        |
| - UL TrCH identity                           | 3          |
| - DCH quality target                         |            |
| - BLER Quality value                         | 0          |
| - Downlink transport channel type            | DCH        |
| - DL Transport channel identity              | 10         |
| - CHOICE DL parameters                       | Same as UL |
| - Uplink transport channel type              | DCH        |
| - UL TrCH identity                           | 5          |
| - DCH quality target                         |            |
| - BLER Quality value                         | 0          |
| - Pre-Defined Physical Channel Configuration |            |
| - Uplink DPCH power control info Predef      |            |
| - CHOICE mode                                | FDD        |
| - Power Control Algorithm                    | Algorithm1 |
| - CHOICE mode                                | FDD        |
| - TFCI existence                             | FALSE      |
| - Puncturing Limit                           | 0.88       |
| - Downlink DPCH power control info Predef    |            |
| - CHOICE mode                                | FDD        |
| - Spreading factor                           | 128        |
| - Fixed or Flexible Position                 | Fixed      |
| - TFCI existence                             | FALSE      |

#### Contents of System Information Block type 17 (3.84 Mcsps TDD and 1.28 Mcps TDD)

This system information block contains fast changing parameters for the configuration of the shared physical channels to be used in connected mode, so this is not present.

#### Contents of System Information Block type 18

|                                       |             |
|---------------------------------------|-------------|
| - Idle mode PLMN identities           |             |
| - PLMNs of intra-frequency cells list | Not present |
| - PLMNs of inter-frequency cells list | Not present |
| - PLMNs of inter-RAT cells list       | Not present |
| - Connected mode PLMN identities      | Not present |

#### Contents of System Information Block type 19

The system information block type 19 contains Inter-RAT frequency and priority information to be used in the cell

| Information Element                                             | Value/remark | Version        |
|-----------------------------------------------------------------|--------------|----------------|
| SysInfoType19                                                   |              | REL-8 or later |
| utra-PriorityInfoList                                           |              |                |
| utra-ServingCell                                                |              |                |
| priority                                                        | 3            |                |
| s-PrioritySearch1                                               | 0 (0dB)      |                |
| s-PrioritySearch2                                               | Not present  |                |
| threshServingLow                                                | 0 (0dB)      |                |
|                                                                 |              |                |
| utran-FDD-FrequencyList (SIZE(1..maxNumFDDFreqs))               | Not present  |                |
| utran-TDD-FrequencyList (SIZE(1..maxNumTDDFreqs))               | Not present  |                |
| gsm-PriorityInfoList (SIZE (1..maxNumGSMCellGroup))             | Not present  |                |
| eutra-FrequencyAndPriorityInfoList (SIZE (1..maxNumEUTRAFreqs)) | Not present  |                |
| nonCriticalExtensions SEQUENCE                                  | Not present  |                |

## Contents of System Information Block type 21

| Information Element                    | Value/remark |
|----------------------------------------|--------------|
| EAB Parameters                         |              |
| - CHOICE <i>barring representation</i> |              |
| - EAB Parameters Per PLMN List         | Not present  |
| - EAB Parameters For All               |              |
| - Common EAB Parameters                |              |
| - EAB Category                         | a            |
| - EAB Access Class Barred List         | 10 items     |
| - Access Class Barred[y]               | 'Barred'.    |

## Contents of System Information Block type 22

| Information Element                                                             | Value/remark |
|---------------------------------------------------------------------------------|--------------|
| - PRACH preamble control parameters extension list Type 1 (for Enhanced Uplink) | Not present  |
| - PRACH preamble control parameters extension list Type 2 (for Enhanced Uplink) | Not present  |
| - PRACH preamble control parameters extension list Type 3 (for Enhanced Uplink) | Not present  |
| - Concurrent Deployment of 2ms and 10ms TTI                                     | Not present  |
| - NodeB triggered HS-DPCCH Transmission                                         | Not present  |
| - Fallback R99 PRACH info                                                       | Not present  |
| - Common E-DCH Resource Configuration Information List Extension                | Not present  |
| - HS-DSCH DRX in CELL_FACH with second DRX cycle Information                    | Not present  |

## Contents of System Information Block type 23

| Information Element              | Condition          | Value/remark                                 |
|----------------------------------|--------------------|----------------------------------------------|
| - CHOICE WLAN representation     |                    | WLAN Offload Information common for all PLMN |
| - WLAN Offload Information       |                    |                                              |
| - WLAN Offload Configuration     |                    |                                              |
| -Threshold Serving RSCP          | RSCP               |                                              |
| -ThreshservingOffloadWLAN, low   |                    | Set according to specific message content    |
| -ThreshservingOffloadWLAN, high  |                    | Set according to specific message content    |
| -Threshold Serving Ec/No         | Ec/No              |                                              |
| -ThreshservingOffloadWLAN, low2  |                    | Set according to specific message content    |
| -ThreshservingOffloadWLAN, high2 |                    | Set according to specific message content    |
| -Threshold Channel Utilization   | ChannelUtilization |                                              |
| -ThreshchUtilWLAN, low           |                    | Set according to specific message content    |
| -ThreshchUtilWLAN, high          |                    | Set according to specific message content    |
| -Threshold Backhaul Bandwidth    | BackHaul           |                                              |
| -ThreshbackhRateDLWLAN, low      |                    | Set according to specific message content    |
| -ThreshbackhRateDLWLAN, high     |                    | Set according to specific message content    |
| -ThreshbackhRateULWLAN, low      |                    | Set according to specific message content    |
| -ThreshbackhRateULWLAN, high     |                    | Set according to specific message content    |
| -Threshold Beacon RSSI           | RSSI               |                                              |
| -ThreshBeaconRSSIWLAN, low       |                    | Set according to specific message content    |
| -ThreshBeaconRSSIWLAN, high      |                    | Set according to specific message content    |
| -Offload Preference Indicator    |                    | '1111 1111 1111 1111'B                       |
| -TsteeringWLAN                   |                    | 0                                            |
| -WLAN Identifier List            |                    | Only 1 WLAN identifier broadcasted           |
| - WLAN Identifier                |                    |                                              |
| - WLAN Type ID                   |                    |                                              |
| -SSID                            |                    | Set as per Table 4.4.8-1 of 36.508[45]       |
| -BSSID                           |                    | Not Present                                  |
| -HESSID                          |                    | Not Present                                  |

| Condition          | Explanation                                         |
|--------------------|-----------------------------------------------------|
| RSCP               | RSCP based thresholds are to be used                |
| Ec/No              | Ec/No based thresholds are to be used               |
| ChannelUtilization | Channel Utilization based thresholds are to be used |
| BackHaul           | BackHaul Bandwidth based thresholds are to be used  |
| RSSI               | Beacon RSSI based thresholds are to be used         |

### 6.1.1 SCCPCH configuration with Stand-alone SRB for PCCH in the first SCCPCH and Interactive/Background 32 kbps PS RAB + SRBs for CCCH/DCCH/BCCH in the second SCCPCH

Two SCCPCHs are used in this SYSTEM INFORMATION configuration. The first SCCPCH carries the PCH and the second SCCPCH carries the FACH for Interactive/Background 32 kbps PS RAB and the FACH for SRBs on CCCH/DCCH/BCCH.

This Reference System Configuration is the same as defined in clause 6.1, except for the following SIBs.

Contents of System Information Block type 5 (FDD)

| Information Element             | Condition | Value/remark           | Version |
|---------------------------------|-----------|------------------------|---------|
| - SIB6 indicator                |           | TRUE                   |         |
| - PICH Power offset             |           | -5 dB                  |         |
| - CHOICE Mode                   |           | FDD                    |         |
| - AICH Power offset             |           | -5 dB                  |         |
| - Primary CCPCH info            |           | Not Present            |         |
| - PRACH system information list |           |                        |         |
| - PRACH system information      |           |                        |         |
| - PRACH info                    |           |                        |         |
| - CHOICE mode                   |           | FDD                    |         |
| - Available Signature           |           | '0000 0000 1111 1111'B |         |
| - Available SF                  |           | 64                     |         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <ul style="list-style-type: none"> <li>- Preamble scrambling code number</li> <li>- Puncturing Limit</li> <li>- Available Sub Channel number</li> <li>- Transport channel Identity</li> <li>- RACH TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- CHOICE Logical channel List</li> <li>- RLC size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- Additional RACH TFS for CCCH</li> <li>- RLC size</li> <li>- Number of Transport blocks</li> <li>- RACH TFCS</li> <li>- CHOICE TFCI signalling</li> <li>- TFCI Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE Mode</li> <li>- Power offset Pp-m</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CHOICE Gain Factors</li> <li>- CHOICE mode</li> <li>- Gain factor <math>\beta_c</math></li> <li>- Gain factor <math>\beta_d</math></li> <li>- Reference TFC ID</li> <li>- CHOICE Mode</li> </ul> | <ul style="list-style-type: none"> <li>0</li> <li>1.00</li> <li>'1111 1111 1111'B</li> <li>15</li> <li>Common transport channels</li> <li>168</li> <li>1</li> <li>FDD</li> <li>Configured</li> <li>360</li> <li>1</li> <li>FDD</li> <li>Configured</li> <li>20 ms</li> <li>Convolutional</li> <li>1/2</li> <li>150</li> <li>16</li> <li>240</li> <li>1</li> <li>Normal</li> <li>Complete reconfiguration</li> <li>2 bit</li> <li>0</li> <li>Computed Gain Factor</li> <li>0</li> <li>FDD</li> <li>0 dB</li> <li>1</li> <li>Signalled Gain Factor</li> <li>FDD</li> <li>11</li> <li>15</li> <li>0</li> <li>FDD</li> </ul> | Rel6  |
| <ul style="list-style-type: none"> <li>- Power offset Pp-m</li> <li>- Additional RACH TFCS for CCCH</li> <li>- Power offset information</li> <li>- CHOICE Gain Factors</li> <li>- CHOICE mode</li> <li>- Gain factor <math>\beta_c</math></li> <li>- Gain factor <math>\beta_d</math></li> <li>- Reference TFC ID</li> <li>- CHOICE Mode</li> <li>- Power offset Pp-m</li> <li>- PRACH partitioning</li> <li>- Access Service Class</li> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> <li>- ASC Setting</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>0 dB</li> <li>Signalled Gain Factor</li> <li>FDD</li> <li>11</li> <li>15</li> <li>0</li> <li>FDD</li> <li>0 dB</li> <li>Not Present</li> <li>FDD</li> <li>0 (ASC#1)</li> <li>7 (ASC#1)</li> <li>'1111'B</li> <li>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.</li> <li>Not Present</li> </ul>                                                                                                                                                                                                                  | Rel-6 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | <p>FDD<br/>0 (ASC#3)<br/>7 (ASC#3)<br/>'1111'B<br/>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.<br/>Not Present</p>                                                                                                                                                                                                                         |  |
| <ul style="list-style-type: none"> <li>- ASC Setting</li> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | <p>FDD<br/>0 (ASC#5)<br/>7 (ASC#5)<br/>'1111'B<br/>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.<br/>Not Present</p>                                                                                                                                                                                                                         |  |
| <ul style="list-style-type: none"> <li>- ASC Setting</li> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | <p>FDD<br/>0 (ASC#7)<br/>7 (ASC#7)<br/>'1111'B<br/>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.</p>                                                                                                                                                                                                                                         |  |
| <ul style="list-style-type: none"> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- AC-to-ASC mapping table</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- CHOICE mode</li> <li>- Primary CPICH TX power</li> <li>- Constant value</li> <li>- PRACH power offset</li> <li>- Power Ramp Step</li> <li>- Preamble Retrans Max</li> <li>- RACH transmission parameters</li> <li>- Mmax</li> <li>- NB01min</li> <li>- NB01max</li> <li>- AICH info</li> <li>- Channelisation code</li> <li>- STTD indicator</li> <li>- AICH transmission timing</li> <li>- Secondary CCPCH system information</li> <li>- Secondary CCPCH info</li> <li>- CHOICE mode</li> <li>- Secondary scrambling code</li> </ul> |  | <p>0.9 (for ASC#2)<br/>0.9 (for ASC#3)<br/>0.9 (for ASC#4)<br/>0.9 (for ASC#5)<br/>0.9 (for ASC#6)<br/>0.9 (for ASC#7)<br/><br/>6 (AC0-9)<br/>5 (AC10)<br/>4 (AC11)<br/>3 (AC12)<br/>2 (AC13)<br/>1 (AC14)<br/>0 (AC15)<br/>FDD<br/>31<br/>-10<br/><br/>3dB<br/>4<br/><br/>2<br/>3 slot<br/>10 slot<br/><br/>3<br/>FALSE<br/>0<br/>(For 2 SCCPCHs)<br/>(SCCPCH for standalone PCH)<br/>FDD<br/>Not Present</p> |  |
| <ul style="list-style-type: none"> <li>- STTD indicator</li> <li>- Spreading factor</li> <li>- Code number</li> <li>- Pilot symbol existence</li> <li>- TFCI existence</li> <li>- Fixed or Flexible position</li> <li>- Timing offset</li> <li>- TFCS</li> <li>- CHOICE TFCI signalling</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | <p>FALSE<br/>128<br/>4<br/>FALSE<br/>FALSE<br/>Fixed<br/>30 (7680 Chip)<br/><br/>Normal</p>                                                                                                                                                                                                                                                                                                                    |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>- TFCI Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- FACH/PCH information</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- Transport channel Identity</li> <li>- CTCH indicator</li> <li>- PICH info</li> <li>- CHOICE mode</li> <li>- Channelisation code</li> <li>- Number of PI per frame</li> <li>- STTD indicator</li> <li>- Secondary CCPCH info</li> <li>- CHOICE mode</li> <li>- Secondary scrambling code</li> <li>- STTD indicator</li> <li>- Spreading factor</li> <li>- Code number</li> <li>- Pilot symbol existence</li> <li>- TFCI existence</li> <li>- Fixed or Flexible position</li> <li>- Timing offset</li> </ul> |  | <ul style="list-style-type: none"> <li>Complete reconfiguration</li> <li>2 bit</li> <li>0</li> <li>Not Present</li> <li>1</li> <li>Not Present</li> <li>(PCH)</li> <li>Common transport channels</li> <li>240</li> <li>0</li> <li>1</li> <li>FDD</li> <li>ALL</li> <li>10 ms</li> <li>Convolutional</li> <li>1/2</li> <li>230</li> <li>16 bit</li> <li>12 (for PCH)</li> <li>FALSE</li> <li>FDD</li> <li>2</li> <li>18</li> <li>FALSE</li> <li>(SCCPCH including two FACHs)</li> <li>FDD</li> <li>Not Present</li> <li>FALSE</li> <li>64</li> <li>1</li> <li>FALSE</li> <li>TRUE (default value)</li> <li>Flexible (default value)</li> <li>Not Present</li> <li>Absence of this IE is equivalent to default value 0</li> <li>Normal</li> <li>Complete reconfiguration</li> <li>4 bit</li> <li>0</li> <li>Not Present</li> <li>1</li> <li>Not Present</li> <li>2</li> <li>Not Present</li> <li>3</li> <li>Not Present</li> <li>4</li> <li>Not Present</li> </ul> |  |
| <ul style="list-style-type: none"> <li>- TFCI</li> <li>- CHOICE TFCI signalling</li> <li>- TFCI Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- FACH/PCH information</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- Number of Transport blocks</li> <li>- Number of Transport blocks</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                            |  | <ul style="list-style-type: none"> <li>(FACH)</li> <li>Common transport channels</li> <li>168</li> <li>0</li> <li>1</li> <li>2</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |

|                                            |    |                           |  |
|--------------------------------------------|----|---------------------------|--|
| - CHOICE Mode                              |    | FDD                       |  |
| - CHOICE Logical channel List              |    | ALL                       |  |
| - Semi-static Transport Format information |    |                           |  |
| - Transmission time interval               |    | 10 ms                     |  |
| - Type of channel coding                   |    | Convolutional             |  |
| - Coding Rate                              |    | 1/2                       |  |
| - Rate matching attribute                  |    | 220                       |  |
| - CRC size                                 |    | 16 bit                    |  |
| - Transport channel Identity               |    | 13 (for FACH)             |  |
| - CTCH indicator                           |    | FALSE                     |  |
| - TFS                                      |    | (FACH)                    |  |
| - CHOICE Transport channel type            |    | Common transport channels |  |
| - Dynamic Transport format information     |    |                           |  |
| - RLC Size                                 |    | 360                       |  |
| - Number of TB and TTI List                |    |                           |  |
| - Number of Transport blocks               |    | 0                         |  |
| - Number of Transport blocks               |    | 1                         |  |
| - CHOICE Mode                              |    | FDD                       |  |
| - CHOICE Logical channel List              |    | ALL                       |  |
| - Semi-static Transport Format information |    |                           |  |
| - Transmission time interval               |    | 10 ms                     |  |
| - Type of channel coding                   |    | Turbo                     |  |
| - Rate matching attribute                  |    | 130                       |  |
| - CRC size                                 |    | 16bit                     |  |
| - Transport channel Identity               |    | 14 (for FACH)             |  |
| - CTCH indicator                           |    | FALSE                     |  |
| - CBS DRX Level 1 information              |    | Not Present               |  |
| - Frequency Band Indicator                 | A1 | Not Present               |  |
| - Frequency Band Indicator 2               |    | Not Present               |  |
| - Frequency Band Indicator                 | A2 | FDD Band under test       |  |
| - Frequency Band Indicator 2               |    | Not Present               |  |
| - Frequency Band Indicator                 | A3 | Extension indicator       |  |
| - Frequency Band Indicator 2               |    | FDD Band under test       |  |

| Condition | Explanation                     |
|-----------|---------------------------------|
| A1        | Band I, Band II, Band III       |
| A2        | Band V, Band VI, Band VII       |
| A3        | Band VIII & bands beyond Band X |

### Contents of System Information Block type 5bis (FDD)

The message structure of the System information block type 5bis should be the same as System information block type 5 with the following exceptions as given below.

|                              |    |                     |
|------------------------------|----|---------------------|
| - Frequency Band Indicator   | A1 | FDD Band under test |
| - Frequency Band Indicator 2 |    | Not Present         |
| - Frequency Band Indicator   | A2 | Extension indicator |
| - Frequency Band Indicator 2 |    | FDD Band under test |

| Condition | Explanation     |
|-----------|-----------------|
| A1        | Band IV         |
| A2        | Band IX, Band X |

### Contents of System Information Block type 5 (3.84 Mcps TDD)

|                               |                       |
|-------------------------------|-----------------------|
| - SIB6 indicator              | FALSE                 |
| - CHOICE Mode                 | TDD                   |
| - TDD open loop power control |                       |
| - PUSCH system information    | Not Present           |
| - PDSCH system information    | Not Present           |
| - TDD open loop power control |                       |
| - Primary CCPCH Tx Power      | 30 dbm                |
| - CHOICE TDD option           | 3.84 Mcps TDD /REL-4/ |
| - Alpha                       | (1/8)                 |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- PRACH Constant Value</li> <li>- DPCH Constant Value</li> <li>- PUSCH Constant Value</li> <li>- UE positioning related parameters</li> <li>- Primary CCPCH info</li> <li>- CHOICE <i>mode</i> <ul style="list-style-type: none"> <li>- CHOICE TDD option</li> <li>- CHOICE SyncCase <ul style="list-style-type: none"> <li>- Timeslot</li> </ul> </li> <li>- Cell parameters ID</li> <li>- SCTD indicator</li> </ul> </li> <li>- PRACH system information list</li> <li>- PRACH system information</li> <li>- PRACH info <ul style="list-style-type: none"> <li>- CHOICE <i>mode</i> <ul style="list-style-type: none"> <li>- CHOICE TDD option <ul style="list-style-type: none"> <li>- Timeslot number</li> </ul> </li> <li>- PRACH Channelisation Code List</li> <li>- CHOICE SF <ul style="list-style-type: none"> <li>- Channelisation Code List</li> </ul> </li> </ul> </li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>-10</li> <li>-10</li> <li>-10</li> <li>Not Present /REL-4/</li> <li>TDD</li> <li>3.84 Mcps TDD /REL-4/</li> <li>Sync Case 2</li> <li>0</li> <li>Not Present</li> <li>FALSE</li> <li></li> <li></li> <li>TDD</li> <li>3.84 Mcps TDD /REL-4/</li> <li>14</li> <li>SF8</li> </ul>                                                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- Channelisation Code</li> <li>- Channelisation Code</li> <li>- Channelisation Code</li> <li>- Channelisation Code</li> <li>- PRACH Midamble</li> <li>- PNBSCH allocation</li> <li>- Transport channel Identity</li> <li>- RACH TFS <ul style="list-style-type: none"> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information <ul style="list-style-type: none"> <li>- RLC size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- CHOICE Logical channel List</li> <li>- RLC size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- CHOICE Logical channel List</li> </ul> </li> <li>- Semi-static Transport Format information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul> </li> <li>- RACH TFCS <ul style="list-style-type: none"> <li>- CHOICE TFCS signalling</li> <li>- TFCS Field 1 information</li> <li>- CHOICE TFCS representation <ul style="list-style-type: none"> <li>- TFCS complete reconfiguration information</li> </ul> </li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CHOICE Gain Factors <ul style="list-style-type: none"> <li>- Reference TFC ID</li> <li>- CHOICE Mode <ul style="list-style-type: none"> <li>- Power offset Pp-m</li> </ul> </li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CHOICE Gain Factors <ul style="list-style-type: none"> <li>- CHOICE <i>mode</i> <ul style="list-style-type: none"> <li>- Gain factor <math>\beta_c</math></li> <li>- Gain factor <math>\beta_d</math></li> <li>- Reference TFC ID</li> </ul> </li> <li>- CHOICE Mode <ul style="list-style-type: none"> <li>- Power offset Pp-m</li> </ul> </li> </ul> </li> </ul> </li> <li>- PRACH partitioning</li> </ul> </li></ul></li></ul> | <ul style="list-style-type: none"> <li>8/1</li> <li>8/2</li> <li>8/3</li> <li>8/4</li> <li>Direct</li> <li>Not Present /REL-4/</li> <li>15</li> <li>Common transport channels</li> <li>168</li> <li>1</li> <li>TDD</li> <li>Configured</li> <li>360</li> <li>1</li> <li>TDD</li> <li>Configured</li> <li>20 ms</li> <li>Convolutional</li> <li>1/2</li> <li>150</li> <li>16</li> <li>Normal</li> <li>Complete reconfiguration</li> <li>2 bit</li> <li>0</li> <li>Computed Gain Factor</li> <li>0</li> <li>TDD</li> <li>0 dB</li> <li>1</li> <li>Signalled Gain Factor</li> <li>TDD</li> <li>11</li> <li>15</li> <li>0</li> <li>TDD</li> <li>0 dB</li> </ul> |

|                                             |                             |
|---------------------------------------------|-----------------------------|
| - Access Service Class                      |                             |
| - ASC Setting                               | Not Present                 |
| - ASC Setting                               |                             |
| - CHOICE mode                               | TDD                         |
| - CHOICE TDD option                         | 3.84 Mcps TDD               |
| - Available Channelisation codes indices    | Not Present (Default all)   |
| - CHOICE subchannel size                    | Size1                       |
| - Available Subchannels                     | null                        |
| - ASC Setting                               | Not Present                 |
| - ASC Setting                               |                             |
| - CHOICE mode                               | TDD                         |
| - CHOICE TDD option                         | 3.84 Mcps TDD               |
| - Available Channelisation codes indices    | Not Present (Default all)   |
| - CHOICE subchannel size                    | Size1                       |
| - Available Subchannels                     | null                        |
| - ASC Setting                               | Not Present                 |
| - ASC Setting                               |                             |
| - CHOICE mode                               | TDD                         |
| - CHOICE TDD option                         | 3.84 Mcps TDD               |
| - Available Channelisation codes indices    | Not Present (Default all)   |
| - CHOICE subchannel size                    | Size1                       |
| - Available Subchannels                     | null                        |
| - Persistence scaling factor                | 0.9 (for ASC#2)             |
| - Persistence scaling factor                | 0.9 (for ASC#3)             |
| - Persistence scaling factor                | 0.9 (for ASC#4)             |
| - Persistence scaling factor                | 0.9 (for ASC#5)             |
| - Persistence scaling factor                | 0.9 (for ASC#6)             |
| - Persistence scaling factor                | 0.9 (for ASC#7)             |
| - AC-to-ASC mapping table                   |                             |
| - AC-to-ASC mapping                         | 6 (AC0-9)                   |
| - AC-to-ASC mapping                         | 5 (AC10)                    |
| - AC-to-ASC mapping                         | 4 (AC11)                    |
| - AC-to-ASC mapping                         | 3 (AC12)                    |
| - AC-to-ASC mapping                         | 2 (AC13)                    |
| - AC-to-ASC mapping                         | 1 (AC14)                    |
| - AC-to-ASC mapping                         | 0 (AC15)                    |
| - CHOICE mode                               | TDD (no data)               |
| - Secondary CCPCH system information        | (For 2 SCCPCHs)             |
| - Secondary CCPCH info                      | (SCCPCH for standalone PCH) |
| - CHOICE mode                               | TDD                         |
| - Secondary scrambling code                 | Not Present                 |
| - STTD indicator                            | FALSE                       |
| - Spreading factor                          | 128                         |
| - Code number                               | 4                           |
| - Pilot symbol existence                    | FALSE                       |
| - TFCI existence                            | FALSE                       |
| - Fixed or Flexible position                | Fixed                       |
| - Timing offset                             | 30 (7680 Chip)              |
| - TFCS                                      |                             |
| - CHOICE TFCI signalling                    | Normal                      |
| - TFCI Field 1 information                  |                             |
| - CHOICE TFCS representation                | Complete reconfiguration    |
| - TFCS complete reconfiguration information |                             |
| - CHOICE CTFC Size                          | 2 bit                       |
| - CTFC information                          | 0                           |
| - Power offset information                  | Not Present                 |
| - CTFC information                          | 1                           |
| - Power offset information                  | Not Present                 |
| - FACH/PCH information                      |                             |
| - TFS                                       | (PCH)                       |

|                                             |                                                     |
|---------------------------------------------|-----------------------------------------------------|
| - CHOICE Transport channel type             | Common transport channels                           |
| - Dynamic Transport format information      |                                                     |
| - RLC Size                                  | 240                                                 |
| - Number of TB and TTI List                 | 0                                                   |
| - Number of Transport blocks                | 1                                                   |
| - CHOICE Mode                               | TDD                                                 |
| - CHOICE Logical channel List               | ALL                                                 |
| - Semi-static Transport Format information  |                                                     |
| - Transmission time interval                | 10 ms                                               |
| - Type of channel coding                    | Convolutional                                       |
| - Coding Rate                               | 1/2                                                 |
| - Rate matching attribute                   | 230                                                 |
| - CRC size                                  | 16 bit                                              |
| - Transport channel Identity                | 12 (for PCH)                                        |
| - CTCH indicator                            | FALSE                                               |
| - PICH info                                 |                                                     |
| - CHOICE mode                               | TDD                                                 |
| - CHOICE TDD option                         | 3.84 Mcps TDD                                       |
| - Timeslot number                           | 0                                                   |
| - Midamble shift and burst type             | 4                                                   |
| - CHOICE Burst Type                         | Type 1                                              |
| - Midamble Allocation Mode                  | Default midamble                                    |
| - Midamble configuration burst type 1       | 8                                                   |
| and 3                                       |                                                     |
| - Midamble Shift                            | Not Present                                         |
| - Channelisation code                       | 16/16                                               |
| - Repetition period/length                  | 64/2                                                |
| - Offset                                    | 0                                                   |
| - Paging indicator length                   | 4                                                   |
| - NGAP                                      | 4                                                   |
| - NPCH                                      | 2                                                   |
| - Secondary CCPCH info                      | (SCCPCH including two FACHs)                        |
| - CHOICE mode                               | TDD                                                 |
| - Secondary scrambling code                 | Not Present                                         |
| - STTD indicator                            | FALSE                                               |
| - Spreading factor                          | 64                                                  |
| - Code number                               | 1                                                   |
| - Pilot symbol existence                    | FALSE                                               |
| - TFCI existence                            |                                                     |
|                                             | TRUE (default value)                                |
| - Fixed or Flexible position                |                                                     |
|                                             | Flexible (default value)                            |
| - Timing offset                             | Not Present                                         |
|                                             | Absence of this IE is equivalent to default value 0 |
| - TFCS                                      |                                                     |
| - CHOICE TFCI signalling                    | Normal                                              |
| - TFCI Field 1 information                  |                                                     |
| - CHOICE TFCS representation                | Complete reconfiguration                            |
| - TFCS complete reconfiguration information |                                                     |
| - CHOICE CTFC Size                          | 4 bit                                               |
| - CTFC information                          | 0                                                   |
| - Power offset information                  | Not Present                                         |
| - CTFC information                          | 1                                                   |
| - Power offset information                  | Not Present                                         |
| - CTFC information                          | 2                                                   |
| - Power offset information                  | Not Present                                         |
| - CTFC information                          | 3                                                   |
| - Power offset information                  | Not Present                                         |
| - CTFC information                          | 4                                                   |
| - Power offset information                  | Not Present                                         |
| - FACH/PCH information                      |                                                     |
| - TFS                                       | (FACH)                                              |
| - CHOICE Transport channel type             | Common transport channels                           |
| - Dynamic Transport format information      |                                                     |
| - RLC Size                                  | 168                                                 |
| - Number of TB and TTI List                 |                                                     |
| - Number of Transport blocks                | 0                                                   |

|                                            |                           |
|--------------------------------------------|---------------------------|
| - Number of Transport blocks               | 1                         |
| - Number of Transport blocks               | 2                         |
| - CHOICE Mode                              | TDD                       |
| - CHOICE Logical channel List              | ALL                       |
| - Semi-static Transport Format information |                           |
| - Transmission time interval               | 10 ms                     |
| - Type of channel coding                   | Convolutional             |
| - Coding Rate                              | 1/2                       |
| - Rate matching attribute                  | 220                       |
| - CRC size                                 | 16 bit                    |
| - Transport channel Identity               | 13 (for FACH)             |
| - CTCH indicator                           | FALSE                     |
| - TFS                                      | (FACH)                    |
| - CHOICE Transport channel type            | Common transport channels |
| - Dynamic Transport format information     |                           |
| - RLC Size                                 | 360                       |
| - Number of TB and TTI List                |                           |
| - Number of Transport blocks               | 0                         |
| - Number of Transport blocks               | 1                         |
| - CHOICE Mode                              | TDD                       |
| - CHOICE Logical channel List              | ALL                       |
| - Semi-static Transport Format information |                           |
| - Transmission time interval               | 10 ms                     |
| - Type of channel coding                   | Turbo                     |
| - Rate matching attribute                  | 130                       |
| - CRC size                                 | 16bit                     |
| - Transport channel Identity               | 14 (for FACH)             |
| - CTCH indicator                           | FALSE                     |
| - CBS DRX Level 1 information              | Not Present               |

## Contents of System Information Block type 5 (1.28 Mcps TDD)

&lt;FFS&gt;

## Contents of System Information Block type 5 (3.84 Mcps TDD)

|                                     |                       |
|-------------------------------------|-----------------------|
| - SIB6 indicator                    | FALSE                 |
| - CHOICE Mode                       | TDD                   |
| - TDD open loop power control       |                       |
| - PUSCH system information          | Not Present           |
| - PDSCH system information          | Not Present           |
| - TDD open loop power control       |                       |
| - Primary CCPCH Tx Power            | 30 dbm                |
| - CHOICE TDD option                 | 3.84 Mcps TDD /REL-4/ |
| - Alpha                             | (1/8)                 |
| - PRACH Constant Value              | -10                   |
| - DPCH Constant Value               | -10                   |
| - PUSCH Constant Value              | -10                   |
| - UE positioning related parameters | Not Present /REL-4/   |
| - Primary CCPCH info                |                       |
| - CHOICE mode                       | TDD                   |
| - CHOICE TDD option                 | 3.84 Mcps TDD /REL-4/ |
| - CHOICE SyncCase                   | Sync Case 2           |
| - Timeslot                          | 0                     |
| - Cell parameters ID                | Not Present           |
| - SCTD indicator                    | FALSE                 |
| - PRACH system information list     |                       |
| - PRACH system information          |                       |
| - PRACH info                        |                       |
| - CHOICE mode                       | TDD                   |
| - CHOICE TDD option                 | 3.84 Mcps TDD /REL-4/ |
| - Timeslot number                   | 14                    |
| - PRACH Channelisation Code List    |                       |
| - CHOICE SF                         | SF8                   |
| - Channelisation Code List          |                       |
| - Channelisation Code               | 8/1                   |
| - Channelisation Code               | 8/2                   |

|                                             |                           |
|---------------------------------------------|---------------------------|
| - Channelisation Code                       | 8/3                       |
| - Channelisation Code                       | 8/4                       |
| - PRACH Midamble                            | Direct                    |
| - PNBSCH allocation                         | Not Present /REL-4/       |
| - Transport channel Identity                | 15                        |
| - RACH TFS                                  |                           |
| - CHOICE Transport channel type             | Common transport channels |
| - Dynamic Transport format information      |                           |
| - RLC size                                  | 168                       |
| - Number of TB and TTI List                 |                           |
| - Number of Transport blocks                | 1                         |
| - CHOICE Mode                               | TDD                       |
| - CHOICE Logical channel List               | Configured                |
| - RLC size                                  | 360                       |
| - Number of TB and TTI List                 |                           |
| - Number of Transport blocks                | 1                         |
| - CHOICE Mode                               | TDD                       |
| - CHOICE Logical channel List               | Configured                |
| - Semi-static Transport Format information  |                           |
| - Transmission time interval                | 20 ms                     |
| - Type of channel coding                    | Convolutional             |
| - Coding Rate                               | 1/2                       |
| - Rate matching attribute                   | 150                       |
| - CRC size                                  | 16                        |
| - RACH TFCS                                 |                           |
| - CHOICE TFCS signalling                    | Normal                    |
| - TFCS Field 1 information                  |                           |
| - CHOICE TFCS representation                | Complete reconfiguration  |
| - TFCS complete reconfiguration information |                           |
| - CHOICE CTFC Size                          | 2 bit                     |
| - CTFC information                          | 0                         |
| - Power offset information                  |                           |
| - CHOICE Gain Factors                       | Computed Gain Factor      |
| - Reference TFC ID                          | 0                         |
| - CHOICE Mode                               | TDD                       |
| - Power offset Pp-m                         | 0 dB                      |
| - CTFC information                          | 1                         |
| - Power offset information                  |                           |
| - CHOICE Gain Factors                       | Signalled Gain Factor     |
| - CHOICE mode                               | TDD                       |
| - Gain factor $\beta_c$                     | 11                        |
| - Gain factor $\beta_d$                     | 15                        |
| - Reference TFC ID                          | 0                         |
| - CHOICE Mode                               | TDD                       |
| - Power offset Pp-m                         | 0 dB                      |
| - PRACH partitioning                        |                           |
| - Access Service Class                      |                           |
| - ASC Setting                               | Not Present               |
| - ASC Setting                               |                           |
| - CHOICE mode                               | TDD                       |
| - CHOICE TDD option                         | 3.84 Mcps TDD             |
| - Available Channelisation codes indices    | Not Present (Default all) |
| - CHOICE subchannel size                    | Size1                     |
| - Available Subchannels                     | null                      |
| - ASC Setting                               | Not Present               |
| - ASC Setting                               |                           |
| - CHOICE mode                               | TDD                       |
| - CHOICE TDD option                         | 3.84 Mcps TDD             |
| - Available Channelisation codes indices    | Not Present (Default all) |
| - CHOICE subchannel size                    | Size1                     |
| - Available Subchannels                     | null                      |
| - ASC Setting                               | Not Present               |
| - ASC Setting                               |                           |
| - CHOICE mode                               | TDD                       |
| - CHOICE TDD option                         | 3.84 Mcps TDD             |
| - Available Channelisation codes indices    | Not Present (Default all) |
| - CHOICE subchannel size                    | Size1                     |
| - Available Subchannels                     | null                      |

|                                             |                             |
|---------------------------------------------|-----------------------------|
| - ASC Setting                               | Not Present                 |
| - ASC Setting                               |                             |
| - CHOICE mode                               | TDD                         |
| - CHOICE TDD option                         | 3.84 Mcps TDD               |
| - Available Channelisation codes indices    | Not Present (Default all)   |
| - CHOICE subchannel size                    | Size1                       |
| - Available Subchannels                     | null                        |
| - Persistence scaling factor                |                             |
| - Persistence scaling factor                | 0.9 (for ASC#2)             |
| - Persistence scaling factor                | 0.9 (for ASC#3)             |
| - Persistence scaling factor                | 0.9 (for ASC#4)             |
| - Persistence scaling factor                | 0.9 (for ASC#5)             |
| - Persistence scaling factor                | 0.9 (for ASC#6)             |
| - Persistence scaling factor                | 0.9 (for ASC#7)             |
| - AC-to-ASC mapping table                   |                             |
| - AC-to-ASC mapping                         | 6 (AC0-9)                   |
| - AC-to-ASC mapping                         | 5 (AC10)                    |
| - AC-to-ASC mapping                         | 4 (AC11)                    |
| - AC-to-ASC mapping                         | 3 (AC12)                    |
| - AC-to-ASC mapping                         | 2 (AC13)                    |
| - AC-to-ASC mapping                         | 1 (AC14)                    |
| - AC-to-ASC mapping                         | 0 (AC15)                    |
| - CHOICE mode                               | TDD (no data)               |
| - Secondary CCPCH system information        | (For 2 SCCPCHs)             |
| - Secondary CCPCH info                      | (SCCPCH for standalone PCH) |
| - CHOICE mode                               | TDD                         |
| - Secondary scrambling code                 | Not Present                 |
| - STTD indicator                            | FALSE                       |
| - Spreading factor                          | 128                         |
| - Code number                               | 4                           |
| - Pilot symbol existence                    | FALSE                       |
| - TFCI existence                            | FALSE                       |
| - Fixed or Flexible position                | Fixed                       |
| - Timing offset                             | 30 (7680 Chip)              |
| - TFCS                                      |                             |
| - CHOICE TFCI signalling                    | Normal                      |
| - TFCI Field 1 information                  |                             |
| - CHOICE TFCS representation                | Complete reconfiguration    |
| - TFCS complete reconfiguration information |                             |
| - CHOICE CTFC Size                          | 2 bit                       |
| - CTFC information                          | 0                           |
| - Power offset information                  | Not Present                 |
| - CTFC information                          | 1                           |
| - Power offset information                  | Not Present                 |
| - FACH/PCH information                      |                             |
| - TFS                                       | (PCH)                       |
| - CHOICE Transport channel type             | Common transport channels   |
| - Dynamic Transport format information      |                             |
| - RLC Size                                  | 240                         |
| - Number of TB and TTI List                 |                             |
| - Number of Transport blocks                | 0                           |
| - Number of Transport blocks                | 1                           |
| - CHOICE Mode                               | TDD                         |
| - CHOICE Logical channel List               | ALL                         |
| - Semi-static Transport Format information  |                             |
| - Transmission time interval                | 10 ms                       |
| - Type of channel coding                    | Convolutional               |
| - Coding Rate                               | 1/2                         |
| - Rate matching attribute                   | 230                         |
| - CRC size                                  | 16 bit                      |
| - Transport channel Identity                | 12 (for PCH)                |
| - CTCH indicator                            | FALSE                       |
| - PICH info                                 |                             |
| - CHOICE mode                               | TDD                         |

|                                             |                                                     |
|---------------------------------------------|-----------------------------------------------------|
| - CHOICE TDD option                         | 3.84 Mcps TDD                                       |
| - Timeslot number                           | 0                                                   |
| - Midamble shift and burst type             | 4                                                   |
| - CHOICE Burst Type                         | Type 1                                              |
| - Midamble Allocation Mode                  | Default midamble                                    |
| - Midamble configuration burst type 1       | 8                                                   |
| and 3                                       |                                                     |
| - Midamble Shift                            | Not Present                                         |
| - Channelisation code                       | 16/16                                               |
| - Repetition period/length                  | 64/2                                                |
| - Offset                                    | 0                                                   |
| - Paging indicator length                   | 4                                                   |
| - NGAP                                      | 4                                                   |
| - NPCH                                      | 2                                                   |
| - Secondary CCPCH info                      | (SCCPCH including two FACHs)                        |
| - CHOICE mode                               | TDD                                                 |
| - Secondary scrambling code                 | Not Present                                         |
| - STTD indicator                            | FALSE                                               |
| - Spreading factor                          | 64                                                  |
| - Code number                               | 1                                                   |
| - Pilot symbol existence                    | FALSE                                               |
| - TFCI existence                            | TRUE (default value)                                |
| - Fixed or Flexible position                | Flexible (default value)                            |
| - Timing offset                             | Not Present                                         |
|                                             | Absence of this IE is equivalent to default value 0 |
| - TFCS                                      |                                                     |
| - CHOICE TFCI signalling                    | Normal                                              |
| - TFCI Field 1 information                  |                                                     |
| - CHOICE TFCS representation                | Complete reconfiguration                            |
| - TFCS complete reconfiguration information |                                                     |
| - CHOICE CTFC Size                          | 4 bit                                               |
| - CTFC information                          | 0                                                   |
| - Power offset information                  | Not Present                                         |
| - CTFC information                          | 1                                                   |
| - Power offset information                  | Not Present                                         |
| - CTFC information                          | 2                                                   |
| - Power offset information                  | Not Present                                         |
| - CTFC information                          | 3                                                   |
| - Power offset information                  | Not Present                                         |
| - CTFC information                          | 4                                                   |
| - Power offset information                  | Not Present                                         |
| - FACH/PCH information                      |                                                     |
| - TFS                                       | (FACH)                                              |
| - CHOICE Transport channel type             | Common transport channels                           |
| - Dynamic Transport format information      |                                                     |
| - RLC Size                                  | 168                                                 |
| - Number of TB and TTI List                 |                                                     |
| - Number of Transport blocks                | 0                                                   |
| - Number of Transport blocks                | 1                                                   |
| - Number of Transport blocks                | 2                                                   |
| - CHOICE Mode                               | TDD                                                 |
| - CHOICE Logical channel List               | ALL                                                 |
| - Semi-static Transport Format information  |                                                     |
| - Transmission time interval                | 10 ms                                               |
| - Type of channel coding                    | Convolutional                                       |
| - Coding Rate                               | 1/2                                                 |
| - Rate matching attribute                   | 220                                                 |
| - CRC size                                  | 16 bit                                              |
| - Transport channel Identity                | 13 (for FACH)                                       |
| - CTCH indicator                            | FALSE                                               |
| - TFS                                       | (FACH)                                              |
| - CHOICE Transport channel type             | Common transport channels                           |
| - Dynamic Transport format information      |                                                     |
| - RLC Size                                  | 360                                                 |
| - Number of TB and TTI List                 |                                                     |
| - Number of Transport blocks                | 0                                                   |

|                                            |               |
|--------------------------------------------|---------------|
| - Number of Transport blocks               | 1             |
| - CHOICE Mode                              | TDD           |
| - CHOICE Logical channel List              | ALL           |
| - Semi-static Transport Format information |               |
| - Transmission time interval               | 10 ms         |
| - Type of channel coding                   | Turbo         |
| - Rate matching attribute                  | 130           |
| - CRC size                                 | 16bit         |
| - Transport channel Identity               | 14 (for FACH) |
| - CTCH indicator                           | FALSE         |
| - CBS DRX Level 1 information              | Not Present   |

#### Contents of System Information Block type 6 in connected mode (FDD)

|                                      |             |
|--------------------------------------|-------------|
| - PICH Power offset                  | -5 dB       |
| - CHOICE Mode                        | FDD         |
| - AICH Power offset                  | -5 dB       |
| - Primary CCPCH info                 | Not Present |
| - PRACH system information list      | Not Present |
| - Secondary CCPCH system information | Not Present |
| - CBS DRX Level 1 information        | Not Present |

#### Contents of System Information Block type 6 in connected mode (3.84 Mcps TDD)

None

#### Contents of System Information Block type 6 in connected mode (1.28 Mcps TDD)

<FFS>

#### Contents of System Information Block type 6 in connected mode (7.68 Mcps TDD)

<FFS>

### 6.1.2 SCCPCH configuration with Stand-alone SRB for PCCH in the first SCCPCH, RB for CTCH + SRBs for CCCH/BCCH in the second SCCPCH and Interactive/Background 32 kbps PS RAB + SRBs for CCCH/DCCH/BCCH in the third SCCPCH (FDD only)

Three SCCPCHs are used in this SYSTEM INFORMATION configuration. The first SCCPCH carries the PCH. The second SCCPCH carries the FACH for CTCH (Cell Broadcast Service) and the FACH for SRBs on CCCH/ BCCH for idle mode UEs. The third SCCPCH carries the FACH for Interactive/Background 32 kbps PS RAB and the FACH for SRBs on CCCH/ DCCH/ BCCH for connected mode UEs.

This Reference System Configuration is the same as defined in clause 6.1, except for the following SIBs.

#### Contents of System Information Block type 5 (FDD)

| Information Element               | Condition | Value/remark           | Version |
|-----------------------------------|-----------|------------------------|---------|
| - SIB6 indicator                  |           | TRUE                   |         |
| - PICH Power offset               |           | -5 dB                  |         |
| - CHOICE Mode                     |           | FDD                    |         |
| - AICH Power offset               |           | -5 dB                  |         |
| - Primary CCPCH info              |           | Not Present            |         |
| - PRACH system information list   |           |                        |         |
| - PRACH system information        |           |                        |         |
| - PRACH info                      |           |                        |         |
| - CHOICE mode                     |           | FDD                    |         |
| - Available Signature             |           | '0000 0000 1111 1111'B |         |
| - Available SF                    |           | 64                     |         |
| - Preamble scrambling code number |           | 0                      |         |
| - Puncturing Limit                |           | 1.00                   |         |
| - Available Sub Channel number    |           | '1111 1111 1111'B      |         |
| - Transport channel Identity      |           | 15                     |         |



|                                             |                                                                                                                 |       |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------|
| - RACH TFS                                  | Common transport channels                                                                                       |       |
| - CHOICE Transport channel type             |                                                                                                                 |       |
| - Dynamic Transport format information      |                                                                                                                 |       |
| - RLC size                                  | 168                                                                                                             |       |
| - Number of TB and TTI List                 |                                                                                                                 |       |
| - Number of Transport blocks                | 1                                                                                                               |       |
| - CHOICE Mode                               | FDD                                                                                                             |       |
| - CHOICE Logical channel List               | Configured                                                                                                      |       |
| - RLC size                                  | 360                                                                                                             |       |
| - Number of TB and TTI List                 |                                                                                                                 |       |
| - Number of Transport blocks                | 1                                                                                                               |       |
| - CHOICE Mode                               | FDD                                                                                                             |       |
| - CHOICE Logical channel List               | Configured                                                                                                      |       |
| - Semi-static Transport Format information  |                                                                                                                 |       |
| - Transmission time interval                | 20 ms                                                                                                           |       |
| - Type of channel coding                    | Convolutional                                                                                                   |       |
| - Coding Rate                               | 1/2                                                                                                             |       |
| - Rate matching attribute                   | 150                                                                                                             |       |
| - CRC size                                  | 16                                                                                                              |       |
| - Additional RACH TFS for CCCH              |                                                                                                                 | Rel6  |
| - RLC size                                  | 240                                                                                                             |       |
| - Number of Transport blocks                | 1                                                                                                               |       |
| - RACH TFCS                                 |                                                                                                                 |       |
| - CHOICE TFCI signalling                    | Normal                                                                                                          |       |
| - TFCI Field 1 information                  |                                                                                                                 |       |
| - CHOICE TFCS representation                | Complete reconfiguration                                                                                        |       |
| - TFCS complete reconfiguration information |                                                                                                                 |       |
| - CHOICE CTFC Size                          | 2 bit                                                                                                           |       |
| - CTFC information                          | 0                                                                                                               |       |
| - Power offset information                  |                                                                                                                 |       |
| - CHOICE Gain Factors                       | Computed Gain Factor                                                                                            |       |
| - Reference TFC ID                          | 0                                                                                                               |       |
| - CHOICE mode                               | FDD                                                                                                             |       |
| - Power offset Pp-m                         | 0 dB                                                                                                            |       |
| - CTFC information                          | 1                                                                                                               |       |
| - Power offset information                  |                                                                                                                 |       |
| - CHOICE Gain Factors                       | Signalled Gain Factor                                                                                           |       |
| - CHOICE mode                               | FDD                                                                                                             |       |
| - Gain factor $\beta_c$                     | 11                                                                                                              |       |
| - Gain factor $\beta_d$                     | 15                                                                                                              |       |
| - Reference TFC ID                          | 0                                                                                                               |       |
| - CHOICE Mode                               | FDD                                                                                                             |       |
| - Power offset Pp-m                         | 0 dB                                                                                                            |       |
| - Additional RACH TFCS for CCCH             |                                                                                                                 | Rel-6 |
| - Power offset information                  |                                                                                                                 |       |
| - CHOICE Gain Factors                       | Signalled Gain Factor                                                                                           |       |
| - CHOICE mode                               | FDD                                                                                                             |       |
| - Gain factor $\beta_d$                     | 15                                                                                                              |       |
| - Gain factor $\beta_c$                     | 11                                                                                                              |       |
| - Reference TFC ID                          | 0                                                                                                               |       |
| - CHOICE Mode                               | FDD                                                                                                             |       |
| - Power offset Pp-m                         | 0 dB                                                                                                            |       |
| - PRACH partitioning                        |                                                                                                                 |       |
| - Access Service Class                      |                                                                                                                 |       |
| - ASC Setting                               | Not Present                                                                                                     |       |
| - ASC Setting                               |                                                                                                                 |       |
| - CHOICE mode                               | FDD                                                                                                             |       |
| - Available signature Start Index           | 0 (ASC#1)                                                                                                       |       |
| - Available signature End Index             | 7 (ASC#1)                                                                                                       |       |
| - Assigned Sub-Channel Number               | '1111'B                                                                                                         |       |
|                                             | The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. |       |
| - ASC Setting                               | Not Present                                                                                                     |       |
| - ASC Setting                               |                                                                                                                 |       |
| - CHOICE mode                               | FDD                                                                                                             |       |
| - Available signature Start Index           | 0 (ASC#3)                                                                                                       |       |
| - Available signature End Index             | 7 (ASC#3)                                                                                                       |       |
| - Assigned Sub-Channel Number               | '1111'B                                                                                                         |       |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>- ASC Setting</li> <li>- ASC Setting</li> <li>- CHOICE mode</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | <p>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.<br/>Not Present</p> <p>FDD</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| <ul style="list-style-type: none"> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> <li>- ASC Setting</li> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- AC-to-ASC mapping table</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- CHOICE mode</li> <li>- Primary CPICH TX power</li> <li>- Constant value</li> <li>- PRACH power offset</li> <li>- Power Ramp Step</li> <li>- Preamble Retrans Max</li> <li>- RACH transmission parameters</li> <li>- Mmax</li> <li>- NB01min</li> <li>- NB01max</li> <li>- AICH info</li> <li>- Channelisation code</li> <li>- STTD indicator</li> <li>- AICH transmission timing</li> <li>- Secondary CCPCH system information</li> <li>- Secondary CCPCH info</li> <li>- CHOICE mode</li> <li>- Secondary scrambling code</li> <li>- STTD indicator</li> <li>- Spreading factor</li> <li>- Code number</li> <li>- Pilot symbol existence</li> <li>- TFCI existence</li> <li>- Fixed or Flexible position</li> <li>- Timing offset</li> <li>- TFCS</li> <li>- CHOICE TFCI signalling</li> <li>- TFCI Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> </ul> |  | <p>0 (ASC#5)<br/>7 (ASC#5)<br/>'1111'B<br/>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.<br/>Not Present</p> <p>FDD<br/>0 (ASC#7)<br/>7 (ASC#7)<br/>'1111'B<br/>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.</p> <p>0.9 (for ASC#2)<br/>0.9 (for ASC#3)<br/>0.9 (for ASC#4)<br/>0.9 (for ASC#5)<br/>0.9 (for ASC#6)<br/>0.9 (for ASC#7)</p> <p>6 (AC0-9)<br/>5 (AC10)<br/>4 (AC11)<br/>3 (AC12)<br/>2 (AC13)<br/>1 (AC14)<br/>0 (AC15)</p> <p>FDD<br/>31<br/>-10</p> <p>3dB<br/>4</p> <p>2<br/>3 slot<br/>10 slot</p> <p>3<br/>FALSE<br/>0<br/>(For 2 SCCPCHs)<br/>(SCCPCH for standalone PCH)</p> <p>FDD<br/>Not Present<br/>FALSE<br/>128<br/>4<br/>FALSE<br/>FALSE<br/>Fixed<br/>30 (7680 Chip)</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>2 bit<br/>0</p> |  |

|                                                                                                                                              |  |                                                     |  |
|----------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> </ul> |  | Not Present                                         |  |
| - FACH/PCH information                                                                                                                       |  | 1                                                   |  |
| - TFS                                                                                                                                        |  | Not Present                                         |  |
| - CHOICE Transport channel type                                                                                                              |  | (PCH)                                               |  |
| - Dynamic Transport format information                                                                                                       |  | Common transport channels                           |  |
| - RLC Size                                                                                                                                   |  | 240                                                 |  |
| - Number of TB and TTI List                                                                                                                  |  | 0                                                   |  |
| - Number of Transport blocks                                                                                                                 |  | 1                                                   |  |
| - Number of Transport blocks                                                                                                                 |  | FDD                                                 |  |
| - CHOICE Mode                                                                                                                                |  | ALL                                                 |  |
| - CHOICE Logical channel List                                                                                                                |  |                                                     |  |
| - Semi-static Transport Format information                                                                                                   |  | 10 ms                                               |  |
| - Transmission time interval                                                                                                                 |  | Convolutional                                       |  |
| - Type of channel coding                                                                                                                     |  | 1/2                                                 |  |
| - Coding Rate                                                                                                                                |  | 230                                                 |  |
| - Rate matching attribute                                                                                                                    |  | 16 bit                                              |  |
| - CRC size                                                                                                                                   |  | 12 (for PCH)                                        |  |
| - Transport channel Identity                                                                                                                 |  | FALSE                                               |  |
| - CTCH indicator                                                                                                                             |  |                                                     |  |
| - PICH info                                                                                                                                  |  | FDD                                                 |  |
| - CHOICE mode                                                                                                                                |  | 2                                                   |  |
| - Channelisation code                                                                                                                        |  | 18                                                  |  |
| - Number of PI per frame                                                                                                                     |  | FALSE                                               |  |
| - STTD indicator                                                                                                                             |  | (SCCPCH including two FACHs)                        |  |
| - Secondary CCPCH info                                                                                                                       |  | FDD                                                 |  |
| - CHOICE mode                                                                                                                                |  | Not Present                                         |  |
| - Secondary scrambling code                                                                                                                  |  | FALSE                                               |  |
| - STTD indicator                                                                                                                             |  | 128                                                 |  |
| - Spreading factor                                                                                                                           |  | 5                                                   |  |
| - Code number                                                                                                                                |  | FALSE                                               |  |
| - Pilot symbol existence                                                                                                                     |  |                                                     |  |
| - TFCI existence                                                                                                                             |  | TRUE (default value)                                |  |
| - Fixed or Flexible position                                                                                                                 |  | Flexible (default value)                            |  |
| - Timing offset                                                                                                                              |  | Not Present                                         |  |
|                                                                                                                                              |  | Absence of this IE is equivalent to default value 0 |  |
| - TFCS                                                                                                                                       |  |                                                     |  |
| - CHOICE TFCI signalling                                                                                                                     |  | Normal                                              |  |
| - TFCI Field 1 information                                                                                                                   |  |                                                     |  |
| - CHOICE TFCS representation                                                                                                                 |  | Complete reconfiguration                            |  |
| - TFCS complete reconfiguration information                                                                                                  |  |                                                     |  |
| - CHOICE CTFC Size                                                                                                                           |  | 2 bit                                               |  |
| - CTFC information                                                                                                                           |  | 0                                                   |  |
| - Power offset information                                                                                                                   |  | Not Present                                         |  |
| - CTFC information                                                                                                                           |  | 1                                                   |  |
| - Power offset information                                                                                                                   |  | Not Present                                         |  |
| - CTFC information                                                                                                                           |  | 2                                                   |  |
| - Power offset information                                                                                                                   |  | Not Present                                         |  |
| - FACH/PCH information                                                                                                                       |  |                                                     |  |
| - TFS                                                                                                                                        |  | (FACH)                                              |  |
| - CHOICE Transport channel type                                                                                                              |  | Common transport channels                           |  |
| - Dynamic Transport format information                                                                                                       |  |                                                     |  |
| - RLC Size                                                                                                                                   |  | 168                                                 |  |
| - Number of TB and TTI List                                                                                                                  |  |                                                     |  |
| - Number of Transport blocks                                                                                                                 |  | 0                                                   |  |
| - Number of Transport blocks                                                                                                                 |  | 1                                                   |  |
| - CHOICE Mode                                                                                                                                |  | FDD                                                 |  |
| - CHOICE Logical channel List                                                                                                                |  | ALL                                                 |  |
| - Semi-static Transport Format information                                                                                                   |  |                                                     |  |
| - Transmission time interval                                                                                                                 |  | 10 ms                                               |  |
| - Type of channel coding                                                                                                                     |  | Convolutional                                       |  |
| - Coding Rate                                                                                                                                |  | 1/3                                                 |  |
| - Rate matching attribute                                                                                                                    |  | 220                                                 |  |
| - CRC size                                                                                                                                   |  | 16 bit                                              |  |

|                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                                                       |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------|--|
| - Transport channel Identity<br>- CTCH indicator<br>- TFS<br>- CHOICE Transport channel type<br>- Dynamic Transport format information<br>- RLC Size<br>- Number of TB and TTI List<br>- Number of Transport blocks<br>- Number of Transport blocks                                                                                                                                                  |    | 13 (for FACH)<br>FALSE<br>(FACH)<br>Common transport channels<br><br>168<br><br>0<br>1                                |  |
| - CHOICE Mode<br>- CHOICE Logical channel List<br>- Semi-static Transport Format information<br>- Transmission time interval<br>- Type of channel coding<br>- Coding Rate<br>- Rate matching attribute<br>- CRC size<br>- Transport channel Identity<br>- CTCH indicator<br>- CBS DRX Level 1 information<br>- Period of CTCH allocation (N)<br>- CBS frame offset (K)<br>- Frequency Band Indicator | A1 | FDD<br>ALL<br><br>10 ms<br>Convolutional<br>1/3<br>220<br>16bit<br>14 (for FACH)<br>TRUE<br><br>2<br>0<br>Not Present |  |
| - Frequency Band Indicator 2                                                                                                                                                                                                                                                                                                                                                                         |    | Not Present                                                                                                           |  |
| - Frequency Band Indicator                                                                                                                                                                                                                                                                                                                                                                           | A2 | FDD Band under test                                                                                                   |  |
| - Frequency Band Indicator 2                                                                                                                                                                                                                                                                                                                                                                         |    | Not Present                                                                                                           |  |
| - Frequency Band Indicator                                                                                                                                                                                                                                                                                                                                                                           | A3 | Extension indicator                                                                                                   |  |
| - Frequency Band Indicator 2                                                                                                                                                                                                                                                                                                                                                                         |    | FDD Band under test                                                                                                   |  |

| Condition | Explanation                     |
|-----------|---------------------------------|
| A1        | Band I, Band II, Band III       |
| A2        | Band V, Band VI, Band VII       |
| A3        | Band VIII & bands beyond Band X |

### Contents of System Information Block type 5bis (FDD)

The message structure of the System information block type 5bis should be the same as System information block type 5 with the following exceptions as given below.

|                              |    |                     |
|------------------------------|----|---------------------|
| - Frequency Band Indicator   | A1 | FDD Band under test |
| - Frequency Band Indicator 2 |    | Not Present         |
| - Frequency Band Indicator   | A2 | Extension indicator |
| - Frequency Band Indicator 2 |    | FDD Band under test |

| Condition | Explanation     |
|-----------|-----------------|
| A1        | Band IV         |
| A2        | Band IX, Band X |

### Contents of System Information Block type 6 in connected mode (FDD)

|                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| - PICH Power offset<br>- CHOICE Mode<br>- AICH Power offset<br>- Primary CCPCH info<br>- PRACH system information list<br>- Secondary CCPCH system information<br>- Secondary CCPCH info<br>- CHOICE mode<br>- Secondary scrambling code<br>- STTD indicator<br>- Spreading factor<br>- Code number<br>- Pilot symbol existence | -5 dB<br>FDD<br>-5 dB<br>Not present<br>Not Present<br><br>(SCCPCH including two FACHs)<br>FDD<br>Not Present<br>FALSE<br>64<br>1<br>FALSE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

|                                             |                           |
|---------------------------------------------|---------------------------|
| - TFCI existence                            | TRUE (default value)      |
| - Fixed or Flexible position                | Flexible (default value)  |
| - Timing offset                             | 90 (23040 Chip)           |
| - TFCS                                      |                           |
| - CHOICE TFCI signalling                    | Normal                    |
| - TFCI Field 1 information                  |                           |
| - CHOICE TFCS representation                | Complete reconfiguration  |
| - TFCS complete reconfiguration information |                           |
| - CHOICE CTFC Size                          | 4 bit                     |
| - CTFC information                          | 0                         |
| - Power offset information                  | Not Present               |
| - CTFC information                          | 1                         |
| - Power offset information                  | Not Present               |
| - CTFC information                          | 2                         |
| - Power offset information                  | Not Present               |
| - CTFC information                          | 3                         |
| - Power offset information                  | Not Present               |
| - CTFC information                          | 4                         |
| - Power offset information                  | Not Present               |
| - FACH/PCH information                      |                           |
| - TFS                                       | (FACH)                    |
| - CHOICE Transport channel type             | Common transport channels |
| - Dynamic Transport format information      |                           |
| - RLC Size                                  | 168                       |
| - Number of TB and TTI List                 |                           |
| - Number of Transport blocks                | 0                         |
| - Number of Transport blocks                | 1                         |
| - Number of Transport blocks                | 2                         |
| - CHOICE Mode                               | FDD                       |
| - CHOICE Logical channel List               | ALL                       |
| - Semi-static Transport Format information  |                           |
| - Transmission time interval                | 10 ms                     |
| - Type of channel coding                    | Convolutional             |
| - Coding Rate                               | 1/2                       |
| - Rate matching attribute                   | 220                       |
| - CRC size                                  | 16 bit                    |
| - Transport channel Identity                | 16 (for FACH)             |
| - CTCH indicator                            | FALSE                     |
| - TFS                                       | (FACH)                    |
| - CHOICE Transport channel type             | Common transport channels |
| - Dynamic Transport format information      |                           |
| - RLC Size                                  | 360                       |
| - Number of TB and TTI List                 |                           |
| - Number of Transport blocks                | 0                         |
| - Number of Transport blocks                | 1                         |
| - CHOICE Mode                               | FDD                       |
| - CHOICE Logical channel List               | ALL                       |
| - Semi-static Transport Format information  |                           |
| - Transmission time interval                | 10 ms                     |
| - Type of channel coding                    | Turbo                     |
| - Rate matching attribute                   | 130                       |
| - CRC size                                  | 16bit                     |
| - Transport channel Identity                | 17 (for FACH)             |
| - CTCH indicator                            | FALSE                     |
| - CBS DRX Level 1 information               | Not Present               |

### 6.1.3 SCCPCH configuration with Stand-alone SRB for PCCH in the first SCCPCH and Interactive/Background 32 kbps PS RAB + SRBs for CCCH/DCCH/BCCH in the second and third SCCPCHs

Three SCCPCHs are used in this SYSTEM INFORMATION configuration. The first SCCPCH carries the PCH and both the second and third SCCPCHs carry the FACH for Interactive/Background 32 kbps PS RAB and the FACH for SRBs on CCCH/ DCCH/ BCCH.

This Reference System Configuration is the same as defined in clause 6.1, except for the following SIBs. (SIB6 is not used in this configuration.)

#### Contents of Scheduling Block 1 (FDD)

|                                                 |                                                           |
|-------------------------------------------------|-----------------------------------------------------------|
| - References to other system information blocks |                                                           |
| - Scheduling information                        | Not Present                                               |
| - CHOICE Value tag                              | 1                                                         |
| - SEG_COUNT                                     | 16                                                        |
| - SIB_REP                                       | 4                                                         |
| - SIB_POS                                       | Not Present                                               |
| - SIB_POS offset info                           | System Information Type 7                                 |
| - SIB type SIBs only                            |                                                           |
| - Scheduling information                        |                                                           |
| - CHOICE Value tag                              | Cell Value tag                                            |
| - Cell Value tag                                | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT                                     | 3                                                         |
| - SIB_REP                                       | 64                                                        |
| - SIB_POS                                       | 58                                                        |
| - SIB_POS offset info                           |                                                           |
| - SIB_OFF                                       | 2                                                         |
| - SIB_OFF                                       | 2                                                         |
| - SIB type SIBs only                            | System Information Type 11                                |
| - Scheduling information                        |                                                           |
| - CHOICE Value tag                              | Cell Value tag                                            |
| - Cell Value tag                                | A valid Cell value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT                                     | 3                                                         |
| - SIB_REP                                       | 64                                                        |
| - SIB_POS                                       | 26                                                        |
| - SIB_POS offset info                           |                                                           |
| - SIB_OFF                                       | 2                                                         |
| - SIB_OFF                                       | 2                                                         |
| - SIB type SIBs only                            | System Information Type 12                                |
| - Scheduling information                        |                                                           |
| - CHOICE Value tag                              | PLMN Value tag                                            |
| - PLMN Value tag                                | A valid PLMN value tag value as defined in TS 25.331 [34] |
| - SEG_COUNT                                     | 1                                                         |
| - SIB_REP                                       | 64                                                        |
| - SIB_POS                                       | 36                                                        |
| - SIB_POS offset info                           | Not Present                                               |
| - SIB type SIBs only                            | System Information Type 18                                |

#### Contents of System Information Block type 5 (FDD)

| Information Element                    | Condition | Value/remark              | Version |
|----------------------------------------|-----------|---------------------------|---------|
| - SIB6 indicator                       |           | FALSE                     |         |
| - PICH Power offset                    |           | -5 dB                     |         |
| - CHOICE Mode                          |           | FDD                       |         |
| - AICH Power offset                    |           | -5 dB                     |         |
| - Primary CCPCH info                   |           | Not Present               |         |
| - PRACH system information list        |           |                           |         |
| - PRACH system information             |           |                           |         |
| - PRACH info                           |           |                           |         |
| - CHOICE mode                          |           | FDD                       |         |
| - Available Signature                  |           | '0000 0000 1111 1111'B    |         |
| - Available SF                         |           | 64                        |         |
| - Preamble scrambling code number      |           | 0                         |         |
| - Puncturing Limit                     |           | 1.00                      |         |
| - Available Sub Channel number         |           | '1111 1111 1111'B         |         |
| - Transport channel Identity           |           | 15                        |         |
| - RACH TFS                             |           |                           |         |
| - CHOICE Transport channel type        |           | Common transport channels |         |
| - Dynamic Transport format information |           |                           |         |
| - RLC size                             |           | 168                       |         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <ul style="list-style-type: none"> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- CHOICE Logical channel List</li> <li>- RLC size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul>                                                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>1</li> <li>FDD</li> <li>Configured</li> <li>360</li> <li>1</li> <li>FDD</li> <li>Configured</li> <li>20 ms</li> <li>Convolutional</li> <li>1/2</li> <li>150</li> <li>16</li> </ul>                                                                                                             |       |
| <ul style="list-style-type: none"> <li>- Additional RACH TFS for CCCH</li> <li>- RLC size</li> <li>- Number of Transport blocks</li> <li>- RACH TFCS</li> <li>- CHOICE TFCl signalling</li> <li>- TFCl Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset Pp-m</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CHOICE Gain Factors</li> <li>- CHOICE mode</li> <li>- Gain factor <math>\beta_c</math></li> <li>- Gain factor <math>\beta_d</math></li> <li>- Reference TFC ID</li> <li>- CHOICE Mode</li> <li>- Power offset Pp-m</li> </ul> | <ul style="list-style-type: none"> <li>240</li> <li>1</li> <li>Normal</li> <li>Complete reconfiguration</li> <li>2 bit</li> <li>0</li> <li>Computed Gain Factor</li> <li>0</li> <li>FDD</li> <li>0 dB</li> <li>1</li> <li>Signalled Gain Factor</li> <li>FDD</li> <li>11</li> <li>15</li> <li>0</li> <li>FDD</li> <li>0 dB</li> </ul> | Rel6  |
| <ul style="list-style-type: none"> <li>- Additional RACH TFCS for CCCH</li> <li>- Power offset information</li> <li>- CHOICE Gain Factors</li> <li>- CHOICE mode</li> <li>- Gain factor <math>\beta_c</math></li> <li>- Gain factor <math>\beta_d</math></li> <li>- Reference TFC ID</li> <li>- CHOICE Mode</li> <li>- Power offset Pp-m</li> <li>- PRACH partitioning</li> <li>- Access Service Class</li> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> </ul>                                                                                                                                                                                                                                                                                                                                | <ul style="list-style-type: none"> <li>Signalled Gain Factor</li> <li>FDD</li> <li>11</li> <li>15</li> <li>0</li> <li>FDD</li> <li>0 dB</li> <li>Not Present</li> <li>FDD</li> <li>0 (ASC#1)</li> </ul>                                                                                                                               | Rel-6 |
| <ul style="list-style-type: none"> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"> <li>7 (ASC#1)</li> <li>'1111'B</li> <li>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.</li> <li>Not Present</li> </ul>                                                                                                            |       |
| <ul style="list-style-type: none"> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>FDD</li> <li>0 (ASC#3)</li> <li>7 (ASC#3)</li> <li>'1111'B</li> <li>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.</li> </ul>                                                                                                 |       |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none"> <li>- ASC Setting</li> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | <p>Not Present</p> <p>FDD</p> <p>0 (ASC#5)</p> <p>7 (ASC#5)</p> <p>'1111'B</p> <p>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.</p> <p>Not Present</p>                                                                                                                                                                                                                                                                                     |  |
| <ul style="list-style-type: none"> <li>- ASC Setting</li> <li>- ASC Setting</li> <li>- CHOICE mode</li> <li>- Available signature Start Index</li> <li>- Available signature End Index</li> <li>- Assigned Sub-Channel Number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | <p>FDD</p> <p>0 (ASC#7)</p> <p>7 (ASC#7)</p> <p>'1111'B</p> <p>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number.</p>                                                                                                                                                                                                                                                                                                                           |  |
| <ul style="list-style-type: none"> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- Persistence scaling factor</li> <li>- AC-to-ASC mapping table</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- CHOICE mode</li> <li>- Primary CPICH TX power</li> <li>- Constant value</li> <li>- PRACH power offset</li> <li>- Power Ramp Step</li> <li>- Preamble Retrans Max</li> <li>- RACH transmission parameters</li> <li>- Mmax</li> <li>- NB01min</li> <li>- NB01max</li> <li>- AICH info</li> <li>- Channelisation code</li> <li>- STTD indicator</li> <li>- AICH transmission timing</li> <li>- Secondary CCPCH system information</li> <li>- Secondary CCPCH info</li> <li>- CHOICE mode</li> <li>- Secondary scrambling code</li> <li>- STTD indicator</li> <li>- Spreading factor</li> <li>- Code number</li> </ul> |  | <p>0.9 (for ASC#2)</p> <p>0.9 (for ASC#3)</p> <p>0.9 (for ASC#4)</p> <p>0.9 (for ASC#5)</p> <p>0.9 (for ASC#6)</p> <p>0.9 (for ASC#7)</p> <p>6 (AC0-9)</p> <p>5 (AC10)</p> <p>4 (AC11)</p> <p>3 (AC12)</p> <p>2 (AC13)</p> <p>1 (AC14)</p> <p>0 (AC15)</p> <p>FDD</p> <p>31</p> <p>-10</p> <p>3dB</p> <p>4</p> <p>2</p> <p>3 slot</p> <p>10 slot</p> <p>3</p> <p>FALSE</p> <p>0</p> <p>(For 3 SCCPCHs)</p> <p>(SCCPCH for standalone PCH)</p> <p>FDD</p> <p>Not Present</p> <p>FALSE</p> <p>128</p> <p>6</p> |  |
| <ul style="list-style-type: none"> <li>- Pilot symbol existence</li> <li>- TFCI existence</li> <li>- Fixed or Flexible position</li> <li>- Timing offset</li> <li>- TFCS</li> <li>- CHOICE TFCI signalling</li> <li>- TFCI Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | <p>FALSE</p> <p>FALSE</p> <p>Fixed</p> <p>30 (7680 Chip)</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>2 bit</p> <p>0</p> <p>Not Present</p> <p>1</p> <p>Not Present</p>                                                                                                                                                                                                                                                                                                                              |  |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
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| <ul style="list-style-type: none"> <li>- FACH/PCH information</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- Transport channel Identity</li> <li>- CTCH indicator</li> <li>- PICH info</li> <li>- CHOICE mode</li> <li>- Channelisation code</li> <li>- Number of PI per frame</li> <li>- STTD indicator</li> <li>- Secondary CCPCH info</li> <li>- CHOICE mode</li> <li>- Secondary scrambling code</li> <li>- STTD indicator</li> <li>- Spreading factor</li> <li>- Code number</li> <li>- Pilot symbol existence</li> <li>- TFCl existence</li> <li>- Fixed or Flexible position</li> <li>- Timing offset</li> <li>- TFCS</li> <li>- CHOICE TFCl signalling</li> <li>- TFCl Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- FACH/PCH information</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> </ul> |  | <p>(PCH)</p> <p>Common transport channels</p> <p>240</p> <p>0</p> <p>1</p> <p>FDD</p> <p>ALL</p> <p>10 ms</p> <p>Convolutional</p> <p>1/2</p> <p>230</p> <p>16 bit</p> <p>12 (for PCH)</p> <p>FALSE</p> <p>FDD</p> <p>2</p> <p>18</p> <p>FALSE</p> <p>(SCCPCH including two FACHs)</p> <p>FDD</p> <p>Not Present</p> <p>FALSE</p> <p>64</p> <p>1</p> <p>FALSE</p> <p>TRUE (default value)</p> <p>Flexible (default value)</p> <p>Not Present</p> <p>Absence of this IE is equivalent to default value 0</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>4 bit</p> <p>0</p> <p>Not Present</p> <p>1</p> <p>Not Present</p> <p>2</p> <p>Not Present</p> <p>3</p> <p>Not Present</p> <p>4</p> <p>Not Present</p> <p>(FACH)</p> <p>Common transport channels</p> |  |
| <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- Number of Transport blocks</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | <p>168</p> <p>0</p> <p>1</p> <p>2</p> <p>FDD</p> <p>ALL</p> <p>10 ms</p> <p>Convolutional</p> <p>1/2</p> <p>220</p> <p>16 bit</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
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| <ul style="list-style-type: none"> <li>- Transport channel Identity</li> <li>- CTCH indicator</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- Transport channel Identity</li> <li>- CTCH indicator</li> <li>- Secondary CCPCH info</li> <li>- CHOICE mode</li> <li>- Secondary scrambling code</li> <li>- STTD indicator</li> <li>- Spreading factor</li> <li>- Code number</li> <li>- Pilot symbol existence</li> <li>- TFCI existence</li> <li>- Fixed or Flexible position</li> <li>- Timing offset</li> <li>- TFCS</li> <li>- CHOICE TFCI signalling</li> <li>- TFCI Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- Power offset information</li> <li>- FACH/PCH information</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> <li>- Number of TB and TTI List</li> <li>- Number of Transport blocks</li> <li>- Number of Transport blocks</li> <li>- Number of Transport blocks</li> <li>- CHOICE Mode</li> <li>- CHOICE Logical channel List</li> </ul> |  | 13 (for FACH)<br>FALSE<br>(FACH)<br>Common transport channels<br><br>360<br><br>0<br>1<br>FDD<br>ALL<br><br>10 ms<br>Turbo<br>130<br>16bit<br>14 (for FACH)<br>FALSE<br>(SCCPCH including two FACHs)<br>FDD<br>Not Present<br>FALSE<br>64<br>2<br>FALSE<br>TRUE (default value)<br>Flexible (default value)<br>90 (23040 Chip)<br><br>Normal<br><br>Complete reconfiguration<br><br>4 bit<br>0<br>Not Present<br>1<br>Not Present<br>2<br>Not Present<br>3<br>Not Present<br>4<br>Not Present<br><br>(FACH)<br>Common transport channels<br><br>168<br><br>0<br>1<br>2<br>FDD<br>ALL |  |
| <ul style="list-style-type: none"> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- Transport channel Identity</li> <li>- CTCH indicator</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> <li>- Number of TB and TTI List</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 10 ms<br>Convolutional<br>1/2<br>220<br>16 bit<br>16 (for FACH)<br>FALSE<br>(FACH)<br>Common transport channels<br><br>360                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |

|                                            |    |                     |  |
|--------------------------------------------|----|---------------------|--|
| - Number of Transport blocks               |    | 0                   |  |
| - Number of Transport blocks               |    | 1                   |  |
| - CHOICE Mode                              |    | FDD                 |  |
| - CHOICE Logical channel List              |    | ALL                 |  |
| - Semi-static Transport Format information |    |                     |  |
| - Transmission time interval               |    | 10 ms               |  |
| - Type of channel coding                   |    | Turbo               |  |
| - Rate matching attribute                  |    | 130                 |  |
| - CRC size                                 |    | 16bit               |  |
| - Transport channel Identity               |    | 17 (for FACH)       |  |
| - CTCH indicator                           |    | FALSE               |  |
| - CBS DRX Level 1 information              |    | Not Present         |  |
| - Frequency Band Indicator                 | A1 | Not Present         |  |
| - Frequency Band Indicator 2               |    | Not Present         |  |
| - Frequency Band Indicator                 | A2 | FDD Band under test |  |
| - Frequency Band Indicator 2               |    | Not Present         |  |
| - Frequency Band Indicator                 | A3 | Extension indicator |  |
| - Frequency Band Indicator 2               |    | FDD Band under test |  |

| Condition | Explanation                     |
|-----------|---------------------------------|
| A1        | Band I, Band II, Band III       |
| A2        | Band V, Band VI, Band VII       |
| A3        | Band VIII & bands beyond Band X |

#### Contents of System Information Block type 5bis (FDD)

The message structure of the System information block type 5bis should be the same as System information block type 5 with the following exceptions as given below.

|                              |    |                     |
|------------------------------|----|---------------------|
| - Frequency Band Indicator   | A1 | FDD Band under test |
| - Frequency Band Indicator 2 |    | Not Present         |
| - Frequency Band Indicator   | A2 | Extension indicator |
| - Frequency Band Indicator 2 |    | FDD Band under test |

| Condition | Explanation     |
|-----------|-----------------|
| A1        | Band IV         |
| A2        | Band IX, Band X |

#### Contents of System Information Block type 5 (3.84 Mcps TDD)

<FFS>

#### Contents of System Information Block type 5 (1.28 Mcps TDD)

<FFS>

### 6.1.4 Default parameters for 1 to 8 cell environments

#### Default settings for cell No.1 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 100                                        |

#### Contents of System Information Block type 11 for cell No.1 (FDD)

See clause 6.1.0b for contents of System Information Block type 11 (FDD) for cell 1.

#### Contents of System Information Block type 12 in connected mode for cell No.1 (FDD)

See clause 6.1.0b for contents of System Information Block type 12 (FDD) for cell 1.

Default settings for cell No.1 (TDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6 Parameter Set           |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set           |
| Cell Channel Description     |                                            |
| - Primary CCPCH info         |                                            |
| - Cell parameters ID         | 0                                          |

Contents of System Information Block type 11 for cell No.1 (TDD)

See clause 6.1.0b for contents of System Information Block type 11 (TDD) for cell 1.

Contents of System Information Block type 12 in connected mode for cell No.1 (TDD)

See clause 6.1.0b for contents of System Information Block type 12 (TDD) for cell 1.

Cell No.2

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.2 are identical to those of cell No.1 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 0010B |
| URA identity  | 0000 0000 0000 0001B                |

Default settings for cell No.2 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 150                                        |

Contents of System Information Block type 11 for cell No.2 (FDD)

|                                                         |            |                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> | A1, A2, A3 |                                                                                                                                                                                                                                                                  |
| ....                                                    |            |                                                                                                                                                                                                                                                                  |
| - New intra-frequency cells                             |            | 2                                                                                                                                                                                                                                                                |
| - Intra-frequency cell id                               |            | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4 |
| - Cell info                                             |            | 1                                                                                                                                                                                                                                                                |
| - Intra-frequency cell id                               |            | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4                |
| - Cell info                                             |            | 3                                                                                                                                                                                                                                                                |
| - Intra-frequency cell id                               |            | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                     |
| - Cell info                                             |            | 7                                                                                                                                                                                                                                                                |
| - Intra-frequency cell id                               | A1, A3     | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                     |
| - Cell info                                             |            | 8                                                                                                                                                                                                                                                                |
| - Intra-frequency cell id                               |            |                                                                                                                                                                                                                                                                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A3     | <p>Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>11</p> <p>Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.11 (FDD)" in clause 6.1.4</p>                                                                                                                                                                                                                                                                                                                 |
| <p>.....</p> <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul> <p>.....</p> | A1, A2 | <p>4</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>6</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>.....</p> <p><b>- Inter-RAT cell info list</b></p> <p>....</p> <ul style="list-style-type: none"> <li>- New inter-RAT cells</li> <li>- Inter-RAT cell id</li> <li>- CHOICE <i>Radio Access Technology</i></li> <li>- GSM</li> </ul><br><ul style="list-style-type: none"> <li>- Inter-RAT cell id</li> <li>- CHOICE <i>Radio Access Technology</i></li> <li>- GSM</li> </ul> <p>....</p>                                                                                                                                                                                                                                                                           | A2     | <p>9</p> <p>GSM</p> <p>Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>10</p> <p>GSM</p> <p>Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in clause 6.1.0b</p>                                                                                                                                                                                                                                                                                                                                                                                                              |

| Condition | Explanation                                                                                  |
|-----------|----------------------------------------------------------------------------------------------|
| A1        | FDD cell environment                                                                         |
| A2        | FDD/GSM inter-RAT cell environment                                                           |
| A3        | FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency cells) |

## Default settings for cell No.2 (TDD)

|                                                                                                                                                                                                              |                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description <ul style="list-style-type: none"> <li>- Primary CCPCH info</li> <li>- Cell parameters ID</li> </ul> | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>4 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.2 (TDD)

|                                                         |  |
|---------------------------------------------------------|--|
| <b>- Intra-frequency measurement system information</b> |  |
|---------------------------------------------------------|--|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| .....<br>- New intra-frequency cells<br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>.....<br>- <b>Inter-frequency measurement system information</b><br>.....<br>- New inter-frequency cells<br>- Inter frequency cell id<br>- Frequency info<br><br>- Cell info<br><br>- Inter frequency cell id<br>- Frequency info<br><br>- Cell info<br><br>- Inter frequency cell id<br>- Frequency info<br><br>- Cell info<br><br>..... | 2<br>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4<br>1<br>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4<br>3<br>Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b<br>7<br>Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b<br>8<br>Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b<br><br>4<br>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b<br>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b<br>5<br>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b<br>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b<br>6<br>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b<br>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Cell No.3

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.3 are identical to those of cell No.1 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 0011B |
| URA identity  | 0000 0000 0000 0010B                |

### Default settings for cell No.3 (FDD)

|                                                                                                                                                              |                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description<br>- Primary CPICH info<br>- Primary scrambling code | Reference clause 6.10 "Parameter Set"<br>Minimum supported by the UE's power class.<br>Reference clause 6.10 "Parameter Set"<br><br>200 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|

### Contents of System Information Block type 11 for cell No.3 (FDD)

|                                                                                                 |            |  |
|-------------------------------------------------------------------------------------------------|------------|--|
| - <b>Intra-frequency measurement system information</b><br>.....<br>- New intra-frequency cells | A1, A2, A3 |  |
|-------------------------------------------------------------------------------------------------|------------|--|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul>                                                                                                                                                      | A1, A3 | <p>3<br/>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4</p> <p>1<br/>Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4</p> <p>2<br/>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>7<br/>Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>8<br/>Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>11<br/>Same content as specified for Intra-frequency cell id=11 in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>.....</p> <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul> <p>.....</p> | A1, A2 | <p>4<br/>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5<br/>Not Present<br/>Absence of this IE is equivalent to value of the previous "frequency info" in the list.<br/>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>6<br/>Not Present<br/>Absence of this IE is equivalent to value of the previous "frequency info" in the list.<br/>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p>                                                                                                                                                                                                                                                                                                                                               |
| <p><b>- Inter-RAT cell info list</b></p> <p>....</p> <ul style="list-style-type: none"> <li>- New inter-RAT cells</li> <li>- Inter-RAT cell id</li> <li>- CHOICE <i>Radio Access Technology</i></li> <li>- GSM</li> </ul><br><ul style="list-style-type: none"> <li>- Inter-RAT cell id</li> <li>- CHOICE <i>Radio Access Technology</i></li> <li>- GSM</li> </ul> <p>....</p>                                                                                                                                                                                                                                                                                        | A2     | <p>9<br/>GSM<br/>Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>10<br/>GSM<br/>Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in clause 6.1.0b</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| Condition | Explanation                                                                                  |
|-----------|----------------------------------------------------------------------------------------------|
| A1        | FDD cell environment                                                                         |
| A2        | FDD/GSM inter-RAT cell environment                                                           |
| A3        | FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency cells) |

## Default settings for cell No.3 (TDD)

|                                                                                                                                                         |                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description<br>- Primary CCPCH info<br>- Cell parameters ID | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>8 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.3 (TDD)

|                                                         |                                                                                                                                                                                                                                                               |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                               |
| ....                                                    |                                                                                                                                                                                                                                                               |
| - New intra-frequency cells                             | 3                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4   |
| - Cell info                                             |                                                                                                                                                                                                                                                               |
| - Intra-frequency cell id                               | 1                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 |
| - Intra-frequency cell id                               | 2                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Intra-frequency cell id                               | 7                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Intra-frequency cell id                               | 8                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| ....                                                    |                                                                                                                                                                                                                                                               |
| <b>- Inter-frequency measurement system information</b> |                                                                                                                                                                                                                                                               |
| ....                                                    |                                                                                                                                                                                                                                                               |
| - New inter-frequency cells                             | 4                                                                                                                                                                                                                                                             |
| - Inter frequency cell id                               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Frequency info                                        | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Cell info                                             |                                                                                                                                                                                                                                                               |
| - Inter frequency cell id                               | 5                                                                                                                                                                                                                                                             |
| - Frequency info                                        | Not Present<br>Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                        |
| - Cell info                                             | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Inter frequency cell id                               | 6                                                                                                                                                                                                                                                             |
| - Frequency info                                        | Not Present<br>Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                        |
| - Cell info                                             | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| ....                                                    |                                                                                                                                                                                                                                                               |

## Cell No.4

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.4 are identical to those of cell No.1 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 0100B |
| URA identity  | 0000 0000 0000 0010B                |





|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Cell info</li> <li>- Inter-frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> <li>- Inter-frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> <li>- Inter-RAT cell info list</li> <li>....</li> <li>- New inter-RAT cells</li> <li>- Inter-RAT cell id</li> <li>- CHOICE <i>Radio Access Technology</i></li> <li>- GSM</li> <li>- Inter-RAT cell id</li> <li>- CHOICE <i>Radio Access Technology</i></li> <li>- GSM</li> <li>....</li> </ul> | A1 | <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4</p> <p>7</p> <p>Not Present</p> <p>Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4</p> <p>8</p> <p>Not Present</p> <p>Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4</p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A2 | <p>9</p> <p>GSM</p> <p>Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>10</p> <p>GSM</p> <p>Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in clause 6.1.0b</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Condition | Explanation                        |
|-----------|------------------------------------|
| A1        | FDD cell environment               |
| A2        | FDD/GSM inter-RAT cell environment |

## Default settings for cell No.4 (TDD)

|                                                                                                                                                                                                              |                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description <ul style="list-style-type: none"> <li>- Primary CCPCH info</li> <li>- Cell parameters ID</li> </ul> | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>12 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.4 (TDD)

|                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b><br>....<br><ul style="list-style-type: none"> <li>- New intra-frequency cells</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul> | 4<br>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4<br>5<br>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                           |                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Intra-frequency cell id<br>- Cell info                                  | 6<br>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4 |
| .....<br><b>- Inter-frequency measurement system information</b><br>..... |                                                                                                                                                                                                                                                   |
| - New inter-frequency cells                                               |                                                                                                                                                                                                                                                   |
| - Inter-frequency cell id                                                 | 1                                                                                                                                                                                                                                                 |
| - Frequency info                                                          | Reference to table 6.1.7 for Cell 1                                                                                                                                                                                                               |
| - UARFCN downlink(Nt)                                                     | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4      |
| - Cell info                                                               | 2                                                                                                                                                                                                                                                 |
| - Inter-frequency cell id                                                 | Not Present                                                                                                                                                                                                                                       |
| - Frequency info                                                          | Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                           |
| - Cell info                                                               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4      |
| - Inter-frequency cell id                                                 | 3                                                                                                                                                                                                                                                 |
| - Frequency info                                                          | Not Present                                                                                                                                                                                                                                       |
| - Cell info                                                               | Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                           |
| - Inter-frequency cell id                                                 | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4      |
| - Frequency info                                                          | 7                                                                                                                                                                                                                                                 |
| - Cell info                                                               | Not Present                                                                                                                                                                                                                                       |
| - Inter-frequency cell id                                                 | Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                           |
| - Frequency info                                                          | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4      |
| - Cell info                                                               | 8                                                                                                                                                                                                                                                 |
| - Inter-frequency cell id                                                 | Not Present                                                                                                                                                                                                                                       |
| - Frequency info                                                          | Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                           |
| - Cell info                                                               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4      |

## Cell No.5

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.5 are identical to those of cell No.4 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 0101B |
| URA identity  | 0000 0000 0000 0011B                |

## Default settings for cell No.5 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 300                                        |

### Contents of System Information Block type 11 for cell No.5 (FDD)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Frequency info</li> <li>- Cell info</li> </ul> <p>.....</p> <p><b>- Inter-RAT cell info list</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-RAT cells</li> <li>- Inter-RAT cell id</li> <li>- CHOICE <i>Radio Access Technology</i></li> <li>- GSM</li> </ul> <ul style="list-style-type: none"> <li>- Inter-RAT cell id</li> <li>- CHOICE <i>Radio Access Technology</i></li> <li>- GSM</li> </ul> <p>.....</p> | A2 | <p>Not Present</p> <p>Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4</p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    | <p>9</p> <p>GSM</p> <p>Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>10</p> <p>GSM</p> <p>Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in clause 6.1.0b</p>                                                                                                                                      |

| Condition | Explanation                        |
|-----------|------------------------------------|
| A1        | FDD cell environment               |
| A2        | FDD/GSM inter-RAT cell environment |

#### Default settings for cell No.5 (TDD)

|                                                                                                                                                                                                                                 |                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Downlink input level</p> <p>Uplink output power</p> <p>PCCPCH/PCPICH carrier number</p> <p>Cell Channel Description</p> <ul style="list-style-type: none"> <li>- Primary CCPCH info</li> <li>- Cell parameters ID</li> </ul> | <p>Reference clause 6 Parameter Set</p> <p>Minimum supported by the UE's power class.</p> <p>Reference clause 6 Parameter Set</p> <p>114</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|

#### Contents of System Information Block type 11 for cell No.5 (TDD)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>- Intra-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New intra-frequency cells</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul> <p>.....</p> <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter-frequency cell id</li> <li>- Frequency info</li> <li>- UARFCN downlink(Nt)</li> </ul> | <p>5</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4</p> <p>4</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4</p> <p>6</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4</p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>1</p> <p>Reference to table 6.1.7 for Cell 1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                           |                                                                                                                                                                                                                                                |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 2 |
| - Inter-frequency cell id | Not Present                                                                                                                                                                                                                                    |
| - Frequency info          | Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                        |
| - Cell info               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4 3 |
| - Inter-frequency cell id | Not Present                                                                                                                                                                                                                                    |
| - Frequency info          | Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                        |
| - Cell info               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4 7 |
| - Inter-frequency cell id | Not Present                                                                                                                                                                                                                                    |
| - Frequency info          | Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                        |
| - Cell info               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4 8 |
| - Inter-frequency cell id | Not Present                                                                                                                                                                                                                                    |
| - Frequency info          | Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                        |
| - Cell info               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4   |

### Cell No.6

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.6 are identical to those of cell No.4 with the following exceptions:

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 0110B |
| URA identity  | 0000 0000 0000 0011B                |

### Default settings for cell No.6 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6 Parameter Set           |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set           |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 350                                        |

### Contents of System Information Block type 11 for cell No.6 (FDD)

|                                                  |        |   |
|--------------------------------------------------|--------|---|
| - Intra-frequency measurement system information | A1, A2 |   |
| ....                                             |        |   |
| - New intra-frequency cells                      |        |   |
| - Intra-frequency cell id                        |        | 6 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul>                                                                                                                                                                                                                                                                                                            |                        | <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4</p> <p>4</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4</p> <p>5</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4</p>                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>.....</p> <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter-frequency cell id</li> <li>- Frequency info</li> <li>- UARFCN uplink(Nu)</li> <li>- UARFCN downlink(Nd)</li> <li>- Cell info</li> <li>- Inter-frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> <li>- Inter-frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> </ul> | <p>A1, A2</p> <p>1</p> | <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11]</p> <p>Reference to table 6.1.2 for Cell 1</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4</p> <p>2</p> <p>Not Present</p> <p>Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4</p> <p>3</p> <p>Not Present</p> <p>Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4</p> |
| <ul style="list-style-type: none"> <li>- Inter-frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> <li>- Inter-frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> </ul>                                                                                                                                                                                                                                                                             | <p>A1</p>              | <p>7</p> <p>Not Present</p> <p>Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4</p> <p>8</p> <p>Not Present</p> <p>Absence of this IE is equivalent to value of the previous "frequency info" in the list.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Cell info</li> </ul> <p>.....</p> <p><b>- Inter-RAT cell info list</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-RAT cells</li> <li>- Inter-RAT cell id</li> <li>- CHOICE <i>Radio Access Technology</i></li> <li>- GSM</li> </ul><br><ul style="list-style-type: none"> <li>- Inter-RAT cell id</li> <li>- CHOICE <i>Radio Access Technology</i></li> <li>- GSM</li> </ul> <p>.....</p> | A2 | <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4</p><br><p>9<br/>GSM<br/>Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>10<br/>GSM<br/>Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in clause 6.1.0b</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Condition | Explanation                        |
|-----------|------------------------------------|
| A1        | FDD cell environment               |
| A2        | FDD/GSM inter-RAT cell environment |

## Default settings for cell No.6 (TDD)

|                                                                                                                                                                                                              |                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description <ul style="list-style-type: none"> <li>- Primary CCPCH info</li> <li>- Cell parameters ID</li> </ul> | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>119 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.6 (TDD)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b><br>.....<br><ul style="list-style-type: none"> <li>- New intra-frequency cells</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br>.....<br><b>- Inter-frequency measurement system information</b><br>.....<br><ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter-frequency cell id</li> <li>- Frequency info <ul style="list-style-type: none"> <li>- UARFCN downlink(Nt)</li> </ul> </li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter-frequency cell id</li> </ul> | 6<br>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4<br>4<br>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4<br>5<br>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4<br><br>1<br>Reference to table 6.1.7 for Cell 1<br>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4<br>2 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                           |                                                                                                                                                                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Frequency info          | Not Present                                                                                                                                                                                                                                  |
| - Cell info               | Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                      |
| - Inter-frequency cell id | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4 |
| - Frequency info          | 3                                                                                                                                                                                                                                            |
| - Cell info               | Not Present                                                                                                                                                                                                                                  |
| - Inter-frequency cell id | Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                      |
| - Frequency info          | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4 |
| - Cell info               | 7                                                                                                                                                                                                                                            |
| - Inter-frequency cell id | Not Present                                                                                                                                                                                                                                  |
| - Frequency info          | Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                      |
| - Cell info               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4 |
| - Inter-frequency cell id | 8                                                                                                                                                                                                                                            |
| - Frequency info          | Not Present                                                                                                                                                                                                                                  |
| - Cell info               | Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                      |
| - Inter-frequency cell id | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4 |
| - Frequency info          | 8                                                                                                                                                                                                                                            |
| - Cell info               | Not Present                                                                                                                                                                                                                                  |
| - Inter-frequency cell id | Absence of this IE is equivalent to value of the previous "frequency info" in the list.                                                                                                                                                      |
| - Frequency info          | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4 |
| - Cell info               | 8                                                                                                                                                                                                                                            |
| .....                     |                                                                                                                                                                                                                                              |

## Cell No.7

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.7 are identical to those of cell No.1 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 0111B |
| URA identity  | 0000 0000 0000 0100B                |

## Default settings for cell No.7 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 400                                        |

## Contents of System Information Block type 11 for cell No.7 (FDD)

|                                                  |        |                                                                                                                                                                                                                                                                  |
|--------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Intra-frequency measurement system information | A1, A3 |                                                                                                                                                                                                                                                                  |
| .....                                            |        |                                                                                                                                                                                                                                                                  |
| - New intra-frequency cells                      |        | 7                                                                                                                                                                                                                                                                |
| - Intra-frequency cell id                        |        | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4 |
| - Cell info                                      |        | 1                                                                                                                                                                                                                                                                |
| - Intra-frequency cell id                        |        |                                                                                                                                                                                                                                                                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul> <p>.....</p> <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul> | A3 | <p>Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4</p> <p>2</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>3</p> <p>Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>8</p> <p>Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>11</p> <p>Same content as specified for Intra-frequency cell id=11 in SIB11 for Cell 1 in clause 6.1.0b</p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    | <p>4</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>6</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p>                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>- Cell info</li> </ul> <p>.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    | <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Condition | Explanation                                                                                  |
|-----------|----------------------------------------------------------------------------------------------|
| A1        | FDD cell environment                                                                         |
| A2        | FDD/GSM inter-RAT cell environment                                                           |
| A3        | FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency cells) |

## Default settings for cell No.7 (TDD)

|                                                                                                                                                                                                              |                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description <ul style="list-style-type: none"> <li>- Primary CCPCH info</li> <li>- Cell parameters ID</li> </ul> | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>123 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.7 (TDD)

|                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b><br>.....<br><ul style="list-style-type: none"> <li>- New intra-frequency cells</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> </ul> | 7<br>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4<br>1 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                         |                                                                                                                                                                                                                                                               |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 |
| - Intra-frequency cell id                               | 2                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Intra-frequency cell id                               | 3                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Intra-frequency cell id                               | 8                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| .....                                                   |                                                                                                                                                                                                                                                               |
| - <b>Inter-frequency measurement system information</b> |                                                                                                                                                                                                                                                               |
| .....                                                   |                                                                                                                                                                                                                                                               |
| - New inter-frequency cells                             | 4                                                                                                                                                                                                                                                             |
| - Inter frequency cell id                               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Frequency info                                        | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Cell info                                             | 5                                                                                                                                                                                                                                                             |
| - Inter frequency cell id                               | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Frequency info                                        | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Cell info                                             | 6                                                                                                                                                                                                                                                             |
| - Inter frequency cell id                               | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Frequency info                                        | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Cell info                                             |                                                                                                                                                                                                                                                               |
| .....                                                   |                                                                                                                                                                                                                                                               |

## Cell No.8

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.8 are identical to those of cell No.1 with the following exceptions:

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 1000B |
| URA identity  | 0000 0000 0000 0100B                |

## Default settings for cell No.8 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 450                                        |

## Contents of System Information Block type 11 for cell No.8 (FDD)

|                                                         |        |                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - <b>Intra-frequency measurement system information</b> | A1, A3 |                                                                                                                                                                                                                                                                  |
| .....                                                   |        |                                                                                                                                                                                                                                                                  |
| - New intra-frequency cells                             |        | 8                                                                                                                                                                                                                                                                |
| - Intra-frequency cell id                               |        | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4 |
| - Cell info                                             |        | 1                                                                                                                                                                                                                                                                |
| - Intra-frequency cell id                               |        |                                                                                                                                                                                                                                                                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul> <p>.....</p> <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> </ul> | A3 | <p>Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4</p> <p>2</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>3</p> <p>Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>7</p> <p>Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>11</p> <p>Same content as specified for Intra-frequency cell id=11 in SIB11 for Cell 1 in clause 6.1.0b</p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    | <p>4</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p>                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> </ul> <p>.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1 | <p>6</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| Condition | Explanation                                                                                  |
|-----------|----------------------------------------------------------------------------------------------|
| A1        | FDD cell environment                                                                         |
| A2        | FDD/GSM inter-RAT cell environment                                                           |
| A3        | FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency cells) |

## Default settings for cell No.8 (TDD)

|                                                                                                                                                                                                              |                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description <ul style="list-style-type: none"> <li>- Primary CCPCH info</li> <li>- Cell parameters ID</li> </ul> | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>127 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.8 (TDD)

|                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b><br>.....<br><ul style="list-style-type: none"> <li>- New intra-frequency cells</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> </ul> | 8<br>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4<br>1 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                         |                                                                                                                                                                                                                                                               |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 |
| - Intra-frequency cell id                               | 2                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Intra-frequency cell id                               | 3                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Intra-frequency cell id                               | 7                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| .....                                                   |                                                                                                                                                                                                                                                               |
| <b>- Inter-frequency measurement system information</b> |                                                                                                                                                                                                                                                               |
| .....                                                   |                                                                                                                                                                                                                                                               |
| - New inter-frequency cells                             |                                                                                                                                                                                                                                                               |
| - Inter frequency cell id                               | 4                                                                                                                                                                                                                                                             |
| - Frequency info                                        | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Inter frequency cell id                               | 5                                                                                                                                                                                                                                                             |
| - Frequency info                                        | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Inter frequency cell id                               | 6                                                                                                                                                                                                                                                             |
| - Frequency info                                        | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                  |
| .....                                                   |                                                                                                                                                                                                                                                               |

#### Cell No.9

##### Contents of System Information for cell No.9 (GSM)

See 3GPP TS 51.010-1 [31], clause 10.1.2.

##### Default settings for cell No.9 (GSM)

See table 6.1.10.

#### Cell No.10

##### Contents of System Information for cell No.10 (GSM)

See 3GPP TS 51.010-1 [31], clause 10.1.2.

##### Default settings for cell No.10 (GSM)

See table 6.1.10

#### Cell No.11

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.11 are identical to those of cell No.1 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0000 1011B |
| URA identity  | 0000 0000 0000 0010B                |

##### Default settings for cell No.11 (FDD)

|                      |                                       |
|----------------------|---------------------------------------|
| Downlink input level | Reference clause 6.10 "Parameter Set" |
|----------------------|---------------------------------------|

|                              |                                            |
|------------------------------|--------------------------------------------|
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 500                                        |

#### Contents of System Information Block type 11 for cell No.11 (FDD)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b><br>....<br>- New intra-frequency cells<br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br>..... | A3 | 11<br>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.11 (FDD)" in clause 6.1.4<br>1<br>Same content as specified for Intra-frequency cell id=2 (neighbour cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4<br>2<br>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b<br>3<br>Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b<br>7<br>Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b<br>8<br>Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Condition | Explanation                                                                                  |
|-----------|----------------------------------------------------------------------------------------------|
| A1        | FDD cell environment                                                                         |
| A2        | FDD/GSM inter-RAT cell environment                                                           |
| A3        | FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency cells) |

#### 6.1.4.1 Default Cell parameters Two PLMN in UTRAN test scenario

In this scenario two cell groups belong to two different PLMN, Cell 1, 2, 3, 7, 8 (for PLMN1) and Cell 4,5,6 (for PLMN2) shall be configured on two different frequencies.

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.1 to 8 are identical to those of cell No.1-8 in clause 6.1.4. Exceptions are found in SYSTEM INFORMATION BLOCK TYPE 11:

- SYSTEM INFORMATION BLOCK TYPE 11 for cell No.1, 2, 3, 7, 8 contains cell No.1, 2, 3, 7, 8 in Intra-frequency measurement system information, and cell No.4, 5, 6 in Inter-frequency measurement system information.
- SYSTEM INFORMATION BLOCK TYPE 11 for cell No.4,5,6 contains cell No.4,5,6 in Intra-frequency measurement system information, and cell No. 1, 2, 3, 7, 8 in Inter-frequency measurement system information.
- All other parameters in SYSTEM INFORMATION BLOCK TYPE 11 are set to identical to clause 6.1.4.

#### Contents of System Information Block type 18 for cell No.1, 2, 3, 7, 8

|                                       |              |
|---------------------------------------|--------------|
| - Idle mode PLMN identities           |              |
| - PLMNs of intra-frequency cells list | Not Present  |
| - PLMNs of inter-frequency cells list |              |
| - PLMN identity                       | Set to PLMN2 |

|                                  |             |
|----------------------------------|-------------|
| - PLMNs of inter-RAT cells list  | Not present |
| - Connected mode PLMN identities | Not present |

Contents of System Information Block type 18 for cell No.4, 5, 6

|                                       |              |
|---------------------------------------|--------------|
| - Idle mode PLMN identities           | Not Present  |
| - PLMNs of intra-frequency cells list |              |
| - PLMNs of inter-frequency cells list | Set to PLMN1 |
| - PLMN identity                       |              |
| - PLMNs of inter-RAT cells list       | Not present  |
| - Connected mode PLMN identities      | Not present  |

#### 6.1.4.1a Default Cell parameters Two PLMN in UTRAN test scenario with cells on PLMN1 belonging to two different frequencies

In this scenario three cell groups belong to two different PLMN, Cell 1, 2, 3 (for PLMN1), Cell 4,5,6 (for PLMN1) and Cell 7,8 (for PLMN2) shall be configured on three different frequencies.

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.1 to 8 are identical to those of cell No.1-8 in clause 6.1.4. Exceptions are found in SYSTEM INFORMATION BLOCK TYPE 11:

- SYSTEM INFORMATION BLOCK TYPE 11 for cell No.1, 2, 3 contains cell No.1, 2, 3 in Intra-frequency measurement system information, and cell No.4, 5, 6, 7, 8 in Inter-frequency measurement system information.
- SYSTEM INFORMATION BLOCK TYPE 11 for cell No.4, 5, 6 contains cell No. 4, 5, 6 in Intra-frequency measurement system information, and cell No. 1, 2, 3, 7, 8 in Inter-frequency measurement system information.
- SYSTEM INFORMATION BLOCK TYPE 11 for cell No. 7, 8 contains cell No. 7, 8 in Intra-frequency measurement system information, and cell No. 1, 2, 3, 4, 5, 6 in Inter-frequency measurement system information
- All other parameters in SYSTEM INFORMATION BLOCK TYPE 11 are set to identical to clause 6.1.4.

Contents of System Information Block type 18 for cell No.1, 2, 3, 4, 5, 6

|                                       |              |
|---------------------------------------|--------------|
| - Idle mode PLMN identities           | Not Present  |
| - PLMNs of intra-frequency cells list |              |
| - PLMNs of inter-frequency cells list | Set to PLMN1 |
| - PLMN identity                       |              |
| - PLMN identity                       | Set to PLMN1 |
| - PLMN identity                       | Set to PLMN1 |
| - PLMN identity                       | Set to PLMN2 |
| - PLMNs of inter-RAT cells list       | Not present  |
| - Connected mode PLMN identities      | Not present  |

Contents of System Information Block type 18 for cell No.7, 8

|                                       |              |
|---------------------------------------|--------------|
| - Idle mode PLMN identities           | Not Present  |
| - PLMNs of intra-frequency cells list |              |
| - PLMNs of inter-frequency cells list | Set to PLMN1 |
| - PLMN identity                       |              |
| - PLMNs of inter-RAT cells list       | Not present  |
| - Connected mode PLMN identities      | Not present  |





|              |                      |
|--------------|----------------------|
| URA identity | 0000 0000 0000 0001B |
|--------------|----------------------|

## Default settings for cell No.21 (FDD)

|                                                                                                                                                              |                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description<br>- Primary CPICH info<br>- Primary scrambling code | Reference clause 6.10 "Parameter Set"<br>Minimum supported by the UE's power class.<br>Reference clause 6.10 "Parameter Set"<br><br><br><br><br>120 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.21 (FDD)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b><br>....<br>- New intra-frequency cells<br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id | <br><br><br>21<br>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4.3<br><br>22<br>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4.3<br><br>23<br>Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4.3<br><br>27<br>Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (FDD)" in clause 6.1.4.3<br><br>28<br>Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (FDD)" in clause 6.1.4.3<br><br>1<br>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4<br><br>2<br>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4<br><br>3<br>Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4<br><br>7 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Cell info</li> </ul>                                                                                                                                                                       | <p>Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4</p>          |
| <ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul>                                                                                                                                    | <p>8</p> <p>Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4</p> |
| <p>.....</p> <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul> | <p>24</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p>                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>- Cell info</li> </ul>                                                                                                                                                                       | <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4</p>         |
| <ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul>                                                                                                                               | <p>25</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p>                                                                                                                |
| <ul style="list-style-type: none"> <li>- Cell info</li> </ul>                                                                                                                                                                       | <p>Same content as specified for Intra-frequency cell id=5 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4</p>         |
| <ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul>                                                                                                                               | <p>26</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p>                                                                                                                |
| <ul style="list-style-type: none"> <li>- Cell info</li> </ul>                                                                                                                                                                       | <p>Same content as specified for Intra-frequency cell id=6 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4</p>         |
| <ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul>                                                                                                                               | <p>4</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p>                                                                                                                 |
| <ul style="list-style-type: none"> <li>- Cell info</li> </ul>                                                                                                                                                                       | <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p>                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul>                                                                                                                               | <p>5</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p>                                                                                                                 |
| <ul style="list-style-type: none"> <li>- Cell info</li> </ul>                                                                                                                                                                       | <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p>                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul>                                                                                                                               | <p>6</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p>                                                                                                                 |
| <ul style="list-style-type: none"> <li>- Cell info</li> </ul>                                                                                                                                                                       | <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p>                                                                                                                                                                              |
| <p>.....</p>                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                  |

Default settings for cell No.21 (TDD)

|                                                                                                                                                         |                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description<br>- Primary CCPCH info<br>- Cell parameters ID | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>2 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.21 (TDD)

|                                                                  |                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b><br>....  |                                                                                                                                                                                                                                                                |
| - New intra-frequency cells                                      | 21                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3 |
| - Cell info                                                      | 22                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3                |
| - Cell info                                                      | 23                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3                |
| - Cell info                                                      | 27                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3                |
| - Cell info                                                      | 28                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3                |
| - Cell info                                                      | 1                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4.4                 |
| - Cell info                                                      | 2                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Cell info                                                      | 3                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Cell info                                                      | 7                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Cell info                                                      | 8                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Cell info                                                      |                                                                                                                                                                                                                                                                |
| <b>- Inter-frequency measurement system information</b><br>..... |                                                                                                                                                                                                                                                                |
| - New inter-frequency cells                                      | 24                                                                                                                                                                                                                                                             |
| - Inter frequency cell id                                        | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Frequency info                                                 |                                                                                                                                                                                                                                                                |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul> | <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4.3</p> <p>23</p> <p>Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4.3</p> <p>27</p> <p>Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (FDD)" in clause 6.1.4.3</p> <p>28</p> <p>Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (FDD)" in clause 6.1.4.3</p> <p>2</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b</p> <p>1</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4</p> <p>3</p> <p>Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b</p> <p>7</p> <p>Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b</p> <p>8</p> <p>Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b</p> |
| <p>.....</p> <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul>                                                                                                                       | <p>24</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4</p> <p>25</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=5 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4</p> <p>26</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                           |                                                                                                                                                                                                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info               | Same content as specified for Intra-frequency cell id=6 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 4                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present                                                                                                                                                                                                                                                       |
|                           | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                                     |
| - Cell info               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                      |
| - Inter frequency cell id | 5                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present                                                                                                                                                                                                                                                       |
|                           | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                                     |
| - Cell info               | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                      |
| - Inter frequency cell id | 6                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present                                                                                                                                                                                                                                                       |
|                           | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                                     |
| - Cell info               | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                      |
| .....                     |                                                                                                                                                                                                                                                                   |

## Default settings for cell No.22 (TDD)

|                                                                                                                                                         |                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description<br>- Primary CCPCH info<br>- Cell parameters ID | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>6 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.22 (TDD)

|                                                         |                                                                                                                                                                                                                                                                |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                |
| ....                                                    |                                                                                                                                                                                                                                                                |
| - New intra-frequency cells                             | 22                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3 |
| - Cell info                                             |                                                                                                                                                                                                                                                                |
| - Intra-frequency cell id                               | 21                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3                |
| - Intra-frequency cell id                               | 23                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3                |
| - Intra-frequency cell id                               | 27                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3                |

|                                                         |                                                                                                                                                                                                                                                      |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Intra-frequency cell id                               | 28                                                                                                                                                                                                                                                   |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3      |
| - Intra-frequency cell id                               | 1                                                                                                                                                                                                                                                    |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4         |
| - Intra-frequency cell id                               | 2                                                                                                                                                                                                                                                    |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| - Intra-frequency cell id                               | 3                                                                                                                                                                                                                                                    |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| - Intra-frequency cell id                               | 7                                                                                                                                                                                                                                                    |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| - Intra-frequency cell id                               | 8                                                                                                                                                                                                                                                    |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| .....                                                   |                                                                                                                                                                                                                                                      |
| <b>- Inter-frequency measurement system information</b> |                                                                                                                                                                                                                                                      |
| .....                                                   |                                                                                                                                                                                                                                                      |
| - New inter-frequency cells                             |                                                                                                                                                                                                                                                      |
| - Inter frequency cell id                               | 24                                                                                                                                                                                                                                                   |
| - Frequency info                                        | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id                               | 25                                                                                                                                                                                                                                                   |
| - Frequency info                                        | Not present                                                                                                                                                                                                                                          |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id                               | 26                                                                                                                                                                                                                                                   |
| - Frequency info                                        | Not present                                                                                                                                                                                                                                          |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id                               | 4                                                                                                                                                                                                                                                    |
| - Frequency info                                        | Not present                                                                                                                                                                                                                                          |
| - Cell info                                             | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| - Inter frequency cell id                               | 5                                                                                                                                                                                                                                                    |
| - Frequency info                                        | Not present                                                                                                                                                                                                                                          |
| - Cell info                                             | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| - Inter frequency cell id                               | 6                                                                                                                                                                                                                                                    |
| - Frequency info                                        | Not present                                                                                                                                                                                                                                          |
| - Cell info                                             | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| .....                                                   |                                                                                                                                                                                                                                                      |

### Cell No.23

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.23 are identical to those of cell No.1 with the following exceptions.

|               |                             |
|---------------|-----------------------------|
| Cell identity | 00000000000000000000010111B |
| URA identity  | 0000 0000 0000 0010B        |

### Default settings for cell No.23 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 220                                        |

## Contents of System Information Block type 11 for cell No.23 (FDD)

| - Intra-frequency measurement system information |                                                                                                                                                                                                                                                                     |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ....                                             |                                                                                                                                                                                                                                                                     |
| - New intra-frequency cells                      | 23                                                                                                                                                                                                                                                                  |
| - Intra-frequency cell id                        | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4.3 |
| - Cell info                                      |                                                                                                                                                                                                                                                                     |
| - Intra-frequency cell id                        | 21                                                                                                                                                                                                                                                                  |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id                        | 22                                                                                                                                                                                                                                                                  |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id                        | 27                                                                                                                                                                                                                                                                  |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id                        | 28                                                                                                                                                                                                                                                                  |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id                        | 3                                                                                                                                                                                                                                                                   |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| - Intra-frequency cell id                        | 1                                                                                                                                                                                                                                                                   |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4    |
| - Intra-frequency cell id                        | 2                                                                                                                                                                                                                                                                   |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| - Intra-frequency cell id                        | 7                                                                                                                                                                                                                                                                   |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| - Intra-frequency cell id                        | 8                                                                                                                                                                                                                                                                   |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul> <p>- Cell info</p><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul> <p>- Cell info</p><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul> <p>- Cell info</p><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul> <p>- Cell info</p><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul> <p>- Cell info</p><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul> <p>- Cell info</p><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul> <p>- Cell info</p> <p>.....</p> | <p>24</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4</p> <p>25</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=5 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4</p> <p>26</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=6 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4</p> <p>4</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>6</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Default settings for cell No.23 (TDD)

|                                                                                                                                                                                                              |                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description <ul style="list-style-type: none"> <li>- Primary CCPCH info</li> <li>- Cell parameters ID</li> </ul> | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>10 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.23 (TDD)

|                                                         |  |
|---------------------------------------------------------|--|
| <b>- Intra-frequency measurement system information</b> |  |
|---------------------------------------------------------|--|

|                                                         |                                                                                                                                                                                                                                                                |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ....                                                    |                                                                                                                                                                                                                                                                |
| - New intra-frequency cells                             | 23                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3 |
| - Cell info                                             | 21                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3                |
| - Cell info                                             | 22                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3                |
| - Cell info                                             | 27                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3                |
| - Cell info                                             | 28                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3                |
| - Cell info                                             | 1                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4                   |
| - Cell info                                             | 2                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Cell info                                             | 3                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Cell info                                             | 7                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Cell info                                             | 8                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Cell info                                             |                                                                                                                                                                                                                                                                |
| .....                                                   |                                                                                                                                                                                                                                                                |
| - <b>Inter-frequency measurement system information</b> |                                                                                                                                                                                                                                                                |
| .....                                                   |                                                                                                                                                                                                                                                                |
| - New inter-frequency cells                             | 24                                                                                                                                                                                                                                                             |
| - Inter frequency cell id                               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Frequency info                                        | Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3           |
| - Cell info                                             | 25                                                                                                                                                                                                                                                             |
| - Inter frequency cell id                               | Not present                                                                                                                                                                                                                                                    |
| - Frequency info                                        | Same content as specified for Intra-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3           |
| - Cell info                                             |                                                                                                                                                                                                                                                                |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4</p> <p>5</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4</p> <p>6</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>.....</p> <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul> | <p>21</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4</p> <p>22</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4</p> <p>23</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4</p> <p>27</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4</p> <p>28</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> |

|                           |                                                                                                                                                                                                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 1                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 2                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 3                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 7                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 8                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| ..                        |                                                                                                                                                                                                                                                                   |

## Default settings for cell No.24 (TDD)

|                                                                                                                                                         |                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description<br>- Primary CCPCH info<br>- Cell parameters ID | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>14 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.24 (TDD)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>- Intra-frequency measurement system information</b></p> <p>....</p> <ul style="list-style-type: none"> <li>- New intra-frequency cells</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul> | <p>24</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3</p> <p>25</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3</p> <p>26</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3</p> <p>4</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4.3</p> <p>5</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4.3</p> <p>6</p> <p>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4.3</p> |
| <p>.....</p> <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul>                                                            | <p>21</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3</p> <p>22</p> <p>Not present</p> <p>Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3</p> <p>23</p> <p>Not present</p> <p>Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3</p> <p>27</p> <p>Not present</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|                           |                                                                                                                                                                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 28                                                                                                                                                                                                                                                   |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 1                                                                                                                                                                                                                                                    |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4    |
| - Inter frequency cell id | 2                                                                                                                                                                                                                                                    |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4    |
| - Inter frequency cell id | 3                                                                                                                                                                                                                                                    |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4    |
| - Inter frequency cell id | 7                                                                                                                                                                                                                                                    |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4    |
| - Inter frequency cell id | 8                                                                                                                                                                                                                                                    |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4    |
| .....                     |                                                                                                                                                                                                                                                      |

### Cell No.25

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.25 are identical to those of cell No.4 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0001 1001B |
| URA identity  | 0000 0000 0000 0011B                |

### Default settings for cell No.25 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 320                                        |

## Contents of System Information Block type 11 for cell No.25 (FDD)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>- Intra-frequency measurement system information</b></p> <p>....</p> <ul style="list-style-type: none"> <li>- New intra-frequency cells</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul> <p>.....</p> | <p>25</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4.3</p> <p>24</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4.3</p> <p>26</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4.3</p> <p>5</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4</p> <p>4</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4</p> <p>6</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4</p> |
| <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul>                                                                                                                                                                        | <p>21</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4</p> <p>22</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4</p> <p>23</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



|                           |                                                                                                                                                                                                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 27                                                                                                                                                                                                                                                                |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 28                                                                                                                                                                                                                                                                |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 1                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 2                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 3                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 7                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 8                                                                                                                                                                                                                                                                 |

|                  |                                                                                                                                                                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Frequency info | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info      | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| ..               |                                                                                                                                                                                                                                                                   |

## Default settings for cell No.25 (TDD)

|                                                                                                                                                         |                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description<br>- Primary CCPCH info<br>- Cell parameters ID | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>116 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.25 (TDD)

|                                                                  |                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b><br>..... |                                                                                                                                                                                                                                                                |
| - New intra-frequency cells                                      | 25                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3 |
| - Cell info                                                      | 24                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3                |
| - Cell info                                                      | 26                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3                |
| - Cell info                                                      | 4                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4                   |
| - Cell info                                                      | 5                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4                   |
| - Cell info                                                      | 6                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4                   |
| - Cell info                                                      |                                                                                                                                                                                                                                                                |
| <b>- Inter-frequency measurement system information</b><br>..... |                                                                                                                                                                                                                                                                |
| - New inter-frequency cells                                      | 21                                                                                                                                                                                                                                                             |
| - Inter frequency cell id                                        | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Frequency info                                                 |                                                                                                                                                                                                                                                                |

|                           |                                                                                                                                                                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info               | Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 22                                                                                                                                                                                                                                                   |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 23                                                                                                                                                                                                                                                   |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 27                                                                                                                                                                                                                                                   |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 28                                                                                                                                                                                                                                                   |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 1                                                                                                                                                                                                                                                    |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4    |
| - Inter frequency cell id | 2                                                                                                                                                                                                                                                    |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4    |
| - Inter frequency cell id | 3                                                                                                                                                                                                                                                    |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4    |
| - Inter frequency cell id | 7                                                                                                                                                                                                                                                    |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4    |
| - Inter frequency cell id | 8                                                                                                                                                                                                                                                    |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4    |

|       |  |
|-------|--|
| ..... |  |
|-------|--|

## Cell No.26

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.26 are identical to those of cell No.4 with the following exceptions:

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0001 1010B |
| URA identity  | 0000 0000 0000 0011B                |

## Default settings for cell No.26 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6 Parameter Set           |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6 Parameter Set           |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 370                                        |

## Contents of System Information Block type 11 for cell No.26 (FDD)

|                                                         |                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                     |
| ....                                                    |                                                                                                                                                                                                                                                                     |
| - New intra-frequency cells                             | 26                                                                                                                                                                                                                                                                  |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4.3 |
| - Cell info                                             |                                                                                                                                                                                                                                                                     |
| - Intra-frequency cell id                               | 24                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id                               | 25                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id                               | 6                                                                                                                                                                                                                                                                   |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4    |
| - Intra-frequency cell id                               | 4                                                                                                                                                                                                                                                                   |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4    |
| - Intra-frequency cell id                               | 5                                                                                                                                                                                                                                                                   |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1.4    |
| ....                                                    |                                                                                                                                                                                                                                                                     |
| <b>- Inter-frequency measurement system information</b> |                                                                                                                                                                                                                                                                     |
| ....                                                    |                                                                                                                                                                                                                                                                     |
| - New inter-frequency cells                             | 21                                                                                                                                                                                                                                                                  |
| - Inter frequency cell id                               |                                                                                                                                                                                                                                                                     |

|                           |                                                                                                                                                                                                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Frequency info          | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 22                                                                                                                                                                                                                                                                |
| - Frequency info          | Not present                                                                                                                                                                                                                                                       |
|                           | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                                     |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 23                                                                                                                                                                                                                                                                |
| - Frequency info          | Not present                                                                                                                                                                                                                                                       |
|                           | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                                     |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 27                                                                                                                                                                                                                                                                |
| - Frequency info          | Not present                                                                                                                                                                                                                                                       |
|                           | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                                     |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 28                                                                                                                                                                                                                                                                |
| - Frequency info          | Not present                                                                                                                                                                                                                                                       |
|                           | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                                     |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 1                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present                                                                                                                                                                                                                                                       |
|                           | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                                     |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 2                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present                                                                                                                                                                                                                                                       |
|                           | Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                                     |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 3                                                                                                                                                                                                                                                                 |

|                           |                                                                                                                                                                                                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 7                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 8                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4 |
| ..                        |                                                                                                                                                                                                                                                                   |

## Default settings for cell No.26 (TDD)

|                                                                                                                                                         |                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description<br>- Primary CCPCH info<br>- Cell parameters ID | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>121 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.26 (TDD)

|                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b><br>....<br>- New intra-frequency cells<br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id | 26<br>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3<br>24<br>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3<br>25<br>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3<br>4 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                  |                                                                                                                                                                                                                                                      |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info                                      | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4         |
| - Intra-frequency cell id                        | 5                                                                                                                                                                                                                                                    |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4         |
| - Intra-frequency cell id                        | 6                                                                                                                                                                                                                                                    |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4         |
| .....                                            |                                                                                                                                                                                                                                                      |
| - Inter-frequency measurement system information |                                                                                                                                                                                                                                                      |
| .....                                            |                                                                                                                                                                                                                                                      |
| - New inter-frequency cells                      | 21                                                                                                                                                                                                                                                   |
| - Inter frequency cell id                        | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| - Frequency info                                 | Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3 |
| - Cell info                                      | 22                                                                                                                                                                                                                                                   |
| - Inter frequency cell id                        | Not present                                                                                                                                                                                                                                          |
| - Frequency info                                 | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3 |
| - Cell info                                      | 23                                                                                                                                                                                                                                                   |
| - Inter frequency cell id                        | Not present                                                                                                                                                                                                                                          |
| - Frequency info                                 | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3 |
| - Cell info                                      | 27                                                                                                                                                                                                                                                   |
| - Inter frequency cell id                        | Not present                                                                                                                                                                                                                                          |
| - Frequency info                                 | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3 |
| - Cell info                                      | 28                                                                                                                                                                                                                                                   |
| - Inter frequency cell id                        | Not present                                                                                                                                                                                                                                          |
| - Frequency info                                 | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3 |
| - Cell info                                      | 1                                                                                                                                                                                                                                                    |
| - Inter frequency cell id                        | Not present                                                                                                                                                                                                                                          |
| - Frequency info                                 | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4    |
| - Cell info                                      | 2                                                                                                                                                                                                                                                    |
| - Inter frequency cell id                        | Not present                                                                                                                                                                                                                                          |
| - Frequency info                                 | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4    |
| - Cell info                                      |                                                                                                                                                                                                                                                      |

|                           |                                                                                                                                                                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Inter frequency cell id | 3                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present                                                                                                                                                                                                                                       |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4 |
| - Inter frequency cell id | 7                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present                                                                                                                                                                                                                                       |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (TDD)" in clause 6.1.4 |
| - Inter frequency cell id | 8                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present                                                                                                                                                                                                                                       |
| - Cell info               | Same content as specified for Intra-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (TDD)" in clause 6.1.4 |
| .....                     |                                                                                                                                                                                                                                                   |

## Cell No.27

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.27 are identical to those of cell No.1 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0001 1011B |
| URA identity  | 0000 0000 0000 0100B                |

## Default settings for cell No.27 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 420                                        |

## Contents of System Information Block type 11 for cell No.27 (FDD)

|                                                         |                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                     |
| ....                                                    |                                                                                                                                                                                                                                                                     |
| - New intra-frequency cells                             | 27                                                                                                                                                                                                                                                                  |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (FDD)" in clause 6.1.4.3 |
| - Cell info                                             |                                                                                                                                                                                                                                                                     |
| - Intra-frequency cell id                               | 21                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id                               | 22                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4.3 |
| - Intra-frequency cell id                               | 23                                                                                                                                                                                                                                                                  |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul><br><p>.....</p> | <p>Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4.3</p> <p>28</p> <p>Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (FDD)" in clause 6.1.4.3</p> <p>7</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4</p> <p>1</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4</p> <p>2</p> <p>Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4</p> <p>3</p> <p>Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4</p> <p>8</p> <p>Same content as specified for Intra-frequency cell id=8 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4</p> |
| <p>.....</p> <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul>                                                                                                               | <p>24</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4</p> <p>25</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=5 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4</p> <p>26</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                           |                                                                                                                                                                                                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info               | Same content as specified for Intra-frequency cell id=6 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4 |
| - Inter frequency cell id | 4                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                      |
| - Inter frequency cell id | 5                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                      |
| - Inter frequency cell id | 6                                                                                                                                                                                                                                                                 |
| - Frequency info          | Not present<br>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101                                                                                                                      |
| - Cell info               | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                      |
| .....                     |                                                                                                                                                                                                                                                                   |

## Default settings for cell No.27 (TDD)

|                                                                                                                                                         |                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description<br>- Primary CCPCH info<br>- Cell parameters ID | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>125 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.27 (TDD)

|                                                         |                                                                                                                                                                                                                                                                |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                |
| .....                                                   |                                                                                                                                                                                                                                                                |
| - New intra-frequency cells                             | 27                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.27 (TDD)" in clause 6.1.4.3 |
| - Cell info                                             |                                                                                                                                                                                                                                                                |
| - Intra-frequency cell id                               | 21                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3                |
| - Intra-frequency cell id                               | 22                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3                |
| - Intra-frequency cell id                               | 23                                                                                                                                                                                                                                                             |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3                |

|                                                                                                 |                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Intra-frequency cell id<br>- Cell info                                                        | 28<br>Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3                                                                                                      |
| - Intra-frequency cell id<br>- Cell info                                                        | 1<br>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4                                                                                                          |
| - Intra-frequency cell id<br>- Cell info                                                        | 2<br>Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                                                                                                          |
| - Intra-frequency cell id<br>- Cell info                                                        | 3<br>Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                                                                                                          |
| - Intra-frequency cell id<br>- Cell info                                                        | 7<br>Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                                                                                                          |
| - Intra-frequency cell id<br>- Cell info                                                        | 8<br>Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                                                                                                          |
| .....<br><b>- Inter-frequency measurement system information</b><br>.....                       |                                                                                                                                                                                                                                                                                                                                                            |
| - New inter-frequency cells<br>- Inter frequency cell id<br>- Frequency info<br><br>- Cell info | 24<br>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b<br>Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id<br>- Frequency info<br>- Cell info                                    | 25<br>Not present<br>Same content as specified for Intra-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3                                                                                  |
| - Inter frequency cell id<br>- Frequency info<br>- Cell info                                    | 26<br>Not present<br>Same content as specified for Intra-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3                                                                                  |
| - Inter frequency cell id<br>- Frequency info<br>- Cell info                                    | 4<br>Not present<br>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                                                                                           |
| - Inter frequency cell id<br>- Frequency info<br>- Cell info                                    | 5<br>Not present<br>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                                                                                           |
| - Inter frequency cell id<br>- Frequency info<br>- Cell info                                    | 6<br>Not present<br>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                                                                                           |
| .....                                                                                           |                                                                                                                                                                                                                                                                                                                                                            |

## Cell No.28

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.28 are identical to those of cell No.1 with the following exceptions:

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0001 1000B |
| URA identity  | 0000 0000 0000 0100B                |

## Default settings for cell No.28 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 470                                        |

## Contents of System Information Block type 11 for cell No.28 (FDD)

|                                                         |                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                     |
| ....                                                    |                                                                                                                                                                                                                                                                     |
| - New intra-frequency cells                             | 28                                                                                                                                                                                                                                                                  |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.28 (FDD)" in clause 6.1.4.3 |
| - Cell info                                             | 21                                                                                                                                                                                                                                                                  |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.21 (FDD)" in clause 6.1.4.3 |
| - Cell info                                             | 22                                                                                                                                                                                                                                                                  |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.22 (FDD)" in clause 6.1.4.3 |
| - Cell info                                             | 23                                                                                                                                                                                                                                                                  |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.23 (FDD)" in clause 6.1.4.3 |
| - Cell info                                             | 27                                                                                                                                                                                                                                                                  |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.27 (FDD)" in clause 6.1.4.3 |
| - Cell info                                             | 8                                                                                                                                                                                                                                                                   |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4    |
| - Cell info                                             | 1                                                                                                                                                                                                                                                                   |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4    |
| - Cell info                                             | 2                                                                                                                                                                                                                                                                   |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=2 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4    |
| - Cell info                                             | 3                                                                                                                                                                                                                                                                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul> <p>.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Same content as specified for Intra-frequency cell id=3 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4</p> <p>7</p> <p>Same content as specified for Intra-frequency cell id=7 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p><b>- Inter-frequency measurement system information</b></p> <p>.....</p> <ul style="list-style-type: none"> <li>- New inter-frequency cells</li> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul><br><ul style="list-style-type: none"> <li>- Inter frequency cell id</li> <li>- Frequency info</li> </ul><br><ul style="list-style-type: none"> <li>- Cell info</li> </ul> <p>.....</p> | <p>24</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (FDD)" in clause 6.1.4</p> <p>25</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=5 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (FDD)" in clause 6.1.4</p> <p>26</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Intra-frequency cell id=6 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (FDD)" in clause 6.1.4</p> <p>4</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>5</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b</p> <p>6</p> <p>Not present</p> <p>Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101</p> <p>Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b</p> |

Default settings for cell No.28 (TDD)

|                                                                                                                                                         |                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description<br>- Primary CCPCH info<br>- Cell parameters ID | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>129 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 11 for cell No.28 (TDD)

|                                                                  |                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b><br>....  |                                                                                                                                                                                                                                                                |
| - New intra-frequency cells                                      | 28                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.28 (TDD)" in clause 6.1.4.3 |
| - Cell info                                                      | 21                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.21 (TDD)" in clause 6.1.4.3                |
| - Cell info                                                      | 22                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.22 (TDD)" in clause 6.1.4.3                |
| - Cell info                                                      | 23                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.23 (TDD)" in clause 6.1.4.3                |
| - Cell info                                                      | 27                                                                                                                                                                                                                                                             |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.27(TDD)" in clause 6.1.4.3                 |
| - Cell info                                                      | 1                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4.2                 |
| - Cell info                                                      | 2                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Cell info                                                      | 3                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Cell info                                                      | 7                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Cell info                                                      | 8                                                                                                                                                                                                                                                              |
| - Intra-frequency cell id                                        | Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Cell info                                                      |                                                                                                                                                                                                                                                                |
| .....                                                            |                                                                                                                                                                                                                                                                |
| <b>- Inter-frequency measurement system information</b><br>..... |                                                                                                                                                                                                                                                                |
| - New inter-frequency cells                                      | 24                                                                                                                                                                                                                                                             |
| - Inter frequency cell id                                        | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                                   |
| - Frequency info                                                 |                                                                                                                                                                                                                                                                |

|                           |                                                                                                                                                                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info               | Same content as specified for Intra-frequency cell id=1 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.24 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 25                                                                                                                                                                                                                                                   |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.25 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 26                                                                                                                                                                                                                                                   |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Intra-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.26 (TDD)" in clause 6.1.4.3 |
| - Inter frequency cell id | 4                                                                                                                                                                                                                                                    |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| - Inter frequency cell id | 5                                                                                                                                                                                                                                                    |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| - Inter frequency cell id | 6                                                                                                                                                                                                                                                    |
| - Frequency info          | Not present                                                                                                                                                                                                                                          |
| - Cell info               | Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in clause 6.1.0b                                                                                                                                                         |
| .....                     |                                                                                                                                                                                                                                                      |

#### 6.1.4.4 Default Cell parameters for MBSFN 31 to 38 cell environments

##### Cell No.31

##### Default settings for cell No.31 (TDD)

|                              |                        |
|------------------------------|------------------------|
| Downlink input level         | Reference clause 6.1.6 |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description     |                        |
| - Primary CCPCH info         |                        |
| - Cell parameters ID         | 1                      |

##### Default settings for cell No.31 (3.84 Mcps TDD IMB)

|                              |                                                                            |
|------------------------------|----------------------------------------------------------------------------|
| Downlink input level         | Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2                                                     |
| Cell Channel Description     |                                                                            |
| - Primary CPICH info         |                                                                            |
| - Primary scrambling code    | 128                                                                        |

##### Default settings for cell No.31 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 120                                        |

## Contents of System Information Block type 3 for cell No.31 (FDD, TDD)

| Information Element                                             | Value/remark                              | Version |
|-----------------------------------------------------------------|-------------------------------------------|---------|
| - SIB4 Indicator                                                | FALSE                                     |         |
| - Cell identity                                                 | 0000 0000 0000 0000 0000 0001 1111B       |         |
| - Cell selection and re-selection info                          |                                           |         |
| - Mapping info                                                  | Not present                               |         |
| - Cell selection and reselection quality measure                | CPICH RSCP                                |         |
| - CHOICE <i>mode</i>                                            | TDD                                       |         |
| - Sintrasearch                                                  | Not present                               |         |
| - Sintersearch                                                  | Not present                               |         |
| - SsearchHCS                                                    | Not present                               |         |
| - RAT List                                                      | Not present                               |         |
| - Qrxlevmin                                                     | -103 (dBm)                                |         |
| - DeltaQrxlevmin                                                | Not Present                               |         |
| - Qhyst1s                                                       | 1 (dB = value*2 (step size))              |         |
| - Qhyst1s,PCH                                                   | Not Present                               |         |
| - Qhyst1s,FACH                                                  | Not Present                               |         |
| - Qhyst2s                                                       | Not Present                               |         |
| - Qhyst2s,PCH                                                   | Not Present                               |         |
| - Qhyst2s,FACH                                                  | Not Present                               |         |
| - Treselections                                                 | 1 (second)                                |         |
| - Treselections,PCH                                             | Not Present                               |         |
| - Treselections,FACH                                            | Not Present                               |         |
| - Speed dependent ScalingFactor for Treselection                | Not Present                               |         |
| - Inter-frequency ScalingFactor for Treselection                | Not Present                               |         |
| - Inter-RAT ScalingFactor for Treselection                      | Not Present                               |         |
| - Non-HCS_T <sub>CRmax</sub>                                    | Not Present (MD, default = 'not used')    |         |
| - Non-HCS_N <sub>CR</sub>                                       | Not Present (MD)                          |         |
| - Non-HCS_T <sub>CRmaxHyst</sub>                                | Not Present                               |         |
| - HCS Serving cell information                                  | Not present                               |         |
| - Maximum allowed UL TX power                                   | 1 (dBm)                                   |         |
| - Cell Access Restriction                                       |                                           |         |
| - Cell barred                                                   | barred                                    |         |
| - Intra-frequency cell re-selection indicator                   | not allowed                               |         |
| - T <sub>barred</sub>                                           | 1280                                      |         |
| - Cell Reserved for operator use                                | not reserved                              |         |
| - Cell Reservation Extension                                    | not reserved                              |         |
| - Access Class Barred List                                      | Not Present (MD - no access class barred) |         |
| - Domain Specific Access Restriction Parameters For PLMN Of MIB | Not Present                               | REL-6   |
| - Domain Specific Access Restriction For Shared Network         | Not Present                               | REL-6   |
| - Deferred measurement control UTRAN support                    | Not Present                               | REL-7   |
| - MBSFN only service                                            | true                                      | REL-7   |

## Contents of System Information Block type 3 for cell No.31 (3.84 Mcps TDD IMB)

| Information Element                             | Value/remark                        | Version |
|-------------------------------------------------|-------------------------------------|---------|
| -SIB4 Indicator                                 | FALSE                               |         |
| -Cell identity                                  | 0000 0000 0000 0000 0000 0001 1111B |         |
| -Cell selection and re-selection info           |                                     |         |
| -Mapping Info                                   | Not present                         |         |
| -Cell selection and reselection quality measure | CPICH RSCP                          |         |
| -choice mode                                    | FDD                                 |         |
| -Sintrasearch                                   | Not present                         |         |
| -Sintersearch                                   | Not present                         |         |
| -SsearchHCS                                     | Not present                         |         |
| -RAT List                                       | Not present                         |         |
| -Qqualmin                                       | Reference to Table 6.1.6.1          |         |
| -Qrxlevmin                                      | Reference to Table 6.1.6.1          |         |
| -DeltaQrxlevmin                                 | Not present                         |         |
| -Qhyst1s                                        | 1 (2 dB)                            |         |
| -Qhyst2s                                        | Not present                         |         |



|                                                                   |                                          |       |
|-------------------------------------------------------------------|------------------------------------------|-------|
| -Treselection <sub>s</sub>                                        | 1 seconds                                |       |
| -Speed dependent ScalingFactor for Treselection                   | Not present                              | REL-5 |
| -Inter-frequency ScalingFactor for Treselection                   | Not present                              | REL-5 |
| -Inter-RAT ScalingFactor for Treselection                         | Not present                              | REL-5 |
| -Non-HCS_T <sub>CRmax</sub>                                       | Not used                                 | REL-5 |
| -HCS Serving cell Information                                     | Not present                              | REL-5 |
| -Maximum allowed UL TX power                                      | 1(dBm)                                   |       |
| -Cell Access Restriction                                          |                                          |       |
| -Cell Barred                                                      | barred                                   |       |
| -Intra-frequency cell re-selection indicator                      | Not-allowed                              |       |
| -T <sub>barred</sub>                                              | 1280                                     |       |
| -Cell Reserved for operator use                                   | Not reserved                             |       |
| -Cell Reservation Extension                                       | Not reserved                             |       |
| -Access Class Barred list                                         | Not present (MD- no access class barred) |       |
| -Domain Specific Access Restriction Parameters For PLMN Of MIB    | Not present                              | REL-6 |
| -Domain Specific Access Restriction For Shared Network            | Not present                              |       |
| -Deferred measurement control reading                             | Not present                              | REL-6 |
| -MBSFN only service                                               | TRUE                                     | REL-7 |
| -Paging Permission with Access Control Parameters For PLMN Of MIB | Not present                              | REL-8 |
| -Paging Permission with Access Control For Shared Network         | Not present                              | REL-8 |
| -CSG Identity                                                     | Not present                              | REL-8 |
| -CSG PSC Split Information                                        | Not present                              | REL-8 |

Contents of System Information Block type 5 for cell No.31 (FDD)

FFS

Contents of System Information Block type 5 for cell No.31 (3.84 Mcps TDD)

|                                        |                           |
|----------------------------------------|---------------------------|
| - SIB6 indicator                       | FALSE                     |
| - PICH Power offset                    | 0 dB                      |
| - CHOICE Mode                          | TDD                       |
| - PUSCH system information             | Not Present               |
| - PUSCH system information VHCR        | Not Present               |
| - PDSCH system information             | Not Present               |
| - TDD open loop power control          |                           |
| - Primary CCPCH Tx Power               | 30 dbm                    |
| - CHOICE <i>TDD option</i>             | 3.84 Mcps TDD             |
| - Alpha                                | Not present               |
| - PRACH Constant Value                 | -10                       |
| - DPCH Constant Value                  | -10                       |
| - PUSCH Constant Value                 | Not present               |
| - UE positioning related parameters    | Not Present               |
| - Primary CCPCH info                   | Not Present               |
| - PRACH system information list        |                           |
| - PRACH system information             |                           |
| - PRACH info                           |                           |
| - CHOICE <i>mode</i>                   | TDD                       |
| - CHOICE <i>TDD option</i>             | 3.84 Mcps TDD             |
| - Timeslot number                      | 14                        |
| - PRACH Channelisation Code List       |                           |
| - CHOICE SF                            | SF8                       |
| - Channelisation Code List             |                           |
| - Channelisation Code                  | 8/1                       |
| - PRACH Midamble                       | Direct                    |
| - PNBSCH allocation                    | Not Present               |
| - Transport channel Identity           | 15                        |
| - RACH TFS                             |                           |
| - CHOICE Transport channel type        | Common transport channels |
| - Dynamic Transport format information |                           |
| - RLC size                             | 16                        |
| - Number of TBs and TTI List           |                           |
| - Number of Transport blocks           | 0                         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- CHOICE <i>mode</i></li> <li>- Transmission Time Interval</li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- Additional RACH TFS for CCCH</li> <li>- RACH TFCS</li> <li>- Additional RACH TFCS for CCCH</li> <li>- PRACH partitioning</li> <li>- Access Service Class</li> <li>- ASC Settings</li> <li>- Persistence scaling factors</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping table</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- CHOICE <i>mode</i></li> <li>- Secondary CCPCH system information</li> <li>- Secondary CCPCH system information list</li> <li>- Secondary CCPCH info</li> <li>- CHOICE <i>mode</i></li> <li>- Offset</li> <li>- Common timeslot info</li> <li>- 2<sup>nd</sup> interleaving mode</li> <li>- TFCI coding</li> <li>- Puncturing limit</li> <li>- Repetition period</li> <li>- Repetition length</li> <li>- Individual timeslot info</li> <li>- CHOICE <i>TDD option</i></li> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble Shift and burst type</li> <li>- CHOICE <i>TDD option</i></li> <li>- CHOICE <i>Burst Type</i></li> <li>- no data</li> <li>- CHOICE <i>TDD option</i></li> <li>- no data</li> <li>- Code List</li> <li>- Channelisation Code</li> <li>- TFCS</li> <li>- CHOICE <i>TFCI signalling</i></li> <li>- TFCI Field 1 information</li> <li>- CHOICE <i>TFCS representation</i></li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE <i>CTFC Size</i></li> <li>- CTFC information</li> <li>- 2 bit CTFC</li> <li>- Power offset information</li> <li>- FACH/PCH information list</li> <li>- TFS</li> <li>- CHOICE <i>Transport channel type</i></li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> </ul> | <ul style="list-style-type: none"> <li>TDD</li> <li>Not Present</li> <li>ALL</li> <li>10</li> <li>No coding</li> <li>Not Present</li> <li>1</li> <li>0</li> <li>Not present</li> <li>Not present</li> <li>Not present</li> <li></li> <li></li> <li>Not Present (Default all)</li> <li>Not Present</li> <li></li> <li>6 (AC0-9)</li> <li>5 (AC10)</li> <li>4 (AC11)</li> <li>3 (AC12)</li> <li>2 (AC13)</li> <li>1 (AC14)</li> <li>0 (AC15)</li> <li>TDD (no data)</li> <li>(MP - but treated as if not received by UE)</li> <li>(MP - but treated as if not received by UE)</li> <li></li> <li>3.84 Mcps TDD</li> <li>0</li> <li></li> <li>Not Present (MD "Frame")</li> <li>Not Present (MD)</li> <li>1.0</li> <li>Not Present (MD "1")</li> <li>Not present (empty)</li> <li></li> <li>3.84 Mcps TDD</li> <li>1</li> <li>FALSE</li> <li></li> <li>3.84 Mcps TDD</li> <li>MBSFN Burst Type</li> <li></li> <li>3.84 Mcps TDD</li> <li></li> <li></li> <li>16/1</li> <li>(MP - but treated as if not received by UE)</li> <li>Normal TFCI signalling</li> <li></li> <li>Complete reconfiguration</li> <li></li> <li>2 bit CTFC</li> <li></li> <li>0</li> <li>Not Present</li> <li>(MP - but treated as if not received by UE)</li> <li></li> <li>Common transport channels</li> <li></li> <li>16</li> </ul> |
| <ul style="list-style-type: none"> <li>- Number of TBs and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE <i>mode</i></li> <li>- Transmission Time Interval</li> <li>- CHOICE <i>Logical Channel List</i></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>0</li> <li>TDD</li> <li>10</li> <li>ALL</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- Transport channel Identity</li> <li>- CTCH indicator</li> <li>- PICH info</li> <li>- MCCH configuration information</li> <li>- CBS DRX Level 1 information</li> <li>- Frequency band indicator</li> <li>- Frequency band indicator 2</li> <li>- HSDPA cell Indicator</li> <li>- E-DCH cell Indicator</li> </ul>                                                                                                                                                                                                                                                                                                                                                              | 10<br>No coding<br>Not Present<br>1<br>0<br>1<br>FALSE<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>Not Present (Default 'HSDPA capability not indicated')<br>Not Present (Default 'E-DCH capability not indicated')                                                                                                                    |
| <ul style="list-style-type: none"> <li>- Secondary CCPCH system information MBMS</li> <li>- Secondary CCPCH system information</li> <li>- Secondary CCPCH info MBMS</li> <li>- CHOICE <i>mode</i></li> <li>- Common timeslot info MBMS</li> <li>- 2<sup>nd</sup> interleaving mode</li> <li>- TFCI coding</li> <li>- Puncturing limit</li> <li>- Downlink Timeslots and Codes</li> <li>- First Individual timeslot info</li> <li>- Timeslot number</li> <li>- CHOICE <i>TDD option</i></li> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble Shift and burst type</li> <li>- CHOICE <i>TDD option</i></li> <li>- CHOICE <i>Burst Type</i></li> <li>- no data</li> <li>- CHOICE <i>TDD option</i></li> <li>- no data</li> <li>- First timeslot channelisation codes</li> <li>- CHOICE <i>codes representation</i></li> <li>- CHOICE <i>more timeslots</i></li> <li>- no data</li> <li>- Modulation</li> </ul> | 3.84 Mcps TDD<br><br>Frame<br>Reference clause 6.10 "Parameter Set"<br>Reference clause 6.10 "Parameter Set"<br><br>3.84 Mcps TDD<br>0<br>Reference clause 6.10 "Parameter Set"<br><br>3.84 Mcps TDD<br>MBSFN Burst Type<br><br>3.84 Mcps TDD<br><br>Reference clause 5.5.2 "Downlink physical channels code allocation for Signalling"<br>No more timeslots<br><br>QPSK |
| <ul style="list-style-type: none"> <li>- TFCS</li> <li>- CHOICE <i>TFCI signalling</i></li> <li>- TFCI Field 1 information</li> <li>- CHOICE <i>TFCS representation</i></li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE <i>CTFC Size</i></li> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset information</li> </ul>                                                                                                                                                                                                                                                                                                  | Normal TFCI signalling<br><br>Complete reconfiguration<br><br>2 bit<br><br>0<br>Not Present<br><br>1<br>Not Present<br><br>2<br>Not Present<br><br>3<br>Not Present                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>- FACH carrying MCCH</li> <li>- TFS</li> <li>- CHOICE <i>Transport channel type</i></li> <li>- Dynamic Transport Format Information</li> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE <i>mode</i></li> <li>- Transmission Time Interval</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Common transport channels<br><br>Reference clause 6.10 "Parameter Set"<br>Reference clause 6.10 "Parameter Set"<br>Reference clause 6.10 "Parameter Set"<br>TDD<br>Not Present                                                                                                                                                                                           |

|                                                |                                                           |
|------------------------------------------------|-----------------------------------------------------------|
| - CHOICE <i>Logical Channel List</i>           | ALL                                                       |
| - no data                                      |                                                           |
| - Semi-static Transport Format information     | Reference clause 6.10 "Parameter Set"                     |
| - Transmission time interval                   | Turbo                                                     |
| - Type of channel coding                       | Not Present                                               |
| - Coding Rate                                  | Reference clause 6.10 "Parameter Set"                     |
| - Rate matching attribute                      | Reference clause 6.10 "Parameter Set"                     |
| - CRC size                                     |                                                           |
| - MCCH configuration information               |                                                           |
| - Access Info Period coefficient               | Reference clause 11.1.1 "MCCH configuration parameters"   |
| - Repetition Period coefficient                | Reference clause 11.1.1 "MCCH configuration parameters"   |
| - Modification period coefficient              | Reference clause 11.1.1 "MCCH configuration parameters"   |
| - RLC info                                     |                                                           |
| - DL UM RLC LI size                            | 7                                                         |
| - DL Duplication Avoidance and Reordering info | Not Present                                               |
| - DL Out of sequence delivery info             |                                                           |
| - Timer_OSD                                    | Not Present                                               |
| - Window size OSD                              | 48                                                        |
| - TCTF presence                                | false                                                     |
| - FACH carrying MTCH list                      | Not Present                                               |
| - Scheduling information                       | Not Present                                               |
| - CHOICE <i>mode</i>                           | TDD                                                       |
| - no data                                      |                                                           |
| - TDD MBSFN information                        |                                                           |
| - Time slot list                               | (This list describes all Timeslots (0...14) in the frame) |
| - Timeslot Number                              |                                                           |
| - CHOICE <i>TDD option</i>                     | 3.84 Mcps TDD                                             |
| - Timeslot number                              | 0                                                         |
| - Cell parameters ID                           | 1                                                         |
| - Timeslot Number                              | (Repeated for each Timeslot (1...14))                     |
| - CHOICE <i>TDD option</i>                     | 3.84 Mcps TDD                                             |
| - Timeslot number                              | (1...14)                                                  |
| - Cell parameters ID                           | 5 (Repeated for each Timeslot (1...14))                   |

## Contents of System Information Block type 5 for cell No.31 (3.84 Mcps TDD IMB)

| Information Element                    | Value/remark                                    | Version |
|----------------------------------------|-------------------------------------------------|---------|
| - SIB6 indicator                       | FALSE                                           |         |
| - PICH Power offset                    | -5 dB (MP-but treated as if not received by UE) |         |
| - CHOICE Mode                          | FDD                                             |         |
| - AICH Power offset                    | -5 dB (MP-but treated as if not received by UE) |         |
| - Primary CCPCH info                   | Not present                                     |         |
| - PRACH system information list        | (MP-but treated as if not received by UE)       |         |
| - PRACH system information             |                                                 |         |
| - PRACH info                           |                                                 |         |
| - CHOICE mode                          | FDD                                             |         |
| - Available Signature                  | '0000 0000 1111 1111'B                          |         |
| - Available SF                         | 64                                              |         |
| - Preamble scrambling code number      | 0                                               |         |
| - Puncturing Limit                     | 1.00                                            |         |
| - Available Sub Channel number         | '1111 1111 1111'B                               |         |
| - Transport channel Identity           | 15                                              |         |
| - RACH TFS                             |                                                 |         |
| - CHOICE Transport channel type        | Common transport channels                       |         |
| - Dynamic Transport format information |                                                 |         |
| - RLC size                             | 168                                             |         |
| - Number of TB and TTI List            |                                                 |         |
| - Number of Transport blocks           | 1                                               |         |

|                                             |                                                                                                                            |       |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------|
| - CHOICE Mode                               | FDD                                                                                                                        |       |
| - CHOICE Logical channel List               | ALL                                                                                                                        |       |
| - Semi-static Transport Format information  |                                                                                                                            |       |
| - Transmission time interval                | 20 ms                                                                                                                      |       |
| - Type of channel coding                    | Turbo                                                                                                                      |       |
| - Rate matching attribute                   | 150                                                                                                                        |       |
| - CRC size                                  | 16                                                                                                                         |       |
| - Additional RACH TFS for CCCH              | Not present                                                                                                                | Rel6  |
| - RACH TFCS                                 |                                                                                                                            |       |
| - CHOICE TFCI signalling                    | Normal                                                                                                                     |       |
| - TFCI Field 1 information                  |                                                                                                                            |       |
| - CHOICE TFCS representation                | Complete reconfiguration                                                                                                   |       |
| - TFCS complete reconfiguration information |                                                                                                                            |       |
| - CHOICE CTFC Size                          | 2 bit CTFC                                                                                                                 |       |
| - CTFC information                          | 0                                                                                                                          |       |
| - 2bit CTFC                                 | 0                                                                                                                          |       |
| - Power offset information                  | Not present                                                                                                                |       |
| - CTFC information                          | 1                                                                                                                          |       |
| - 2bit CTFC                                 | 1                                                                                                                          |       |
| - Power offset information                  | Not present                                                                                                                |       |
| - CTFC information                          | 2                                                                                                                          |       |
| - 2bit CTFC                                 | 2                                                                                                                          |       |
| - Power offset information                  | Not present                                                                                                                |       |
| - CTFC information                          | 3                                                                                                                          |       |
| - 2bit CTFC                                 | 3                                                                                                                          |       |
| - Power offset information                  | Not present                                                                                                                |       |
| - Additional RACH TFCS for CCCH             | Not present                                                                                                                | Rel-6 |
| - PRACH partitioning                        |                                                                                                                            |       |
| - Access Service Class                      |                                                                                                                            |       |
| - ASC Setting                               |                                                                                                                            |       |
| - CHOICE mode                               | FDD                                                                                                                        |       |
| - Available signature Start Index           | 0 (ASC#1)                                                                                                                  |       |
| - Available signature End Index             | 7 (ASC#1)                                                                                                                  |       |
| - Assigned Sub-Channel Number               | '1111'B<br>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. |       |
| - ASC Setting                               |                                                                                                                            |       |
| - CHOICE mode                               | FDD                                                                                                                        |       |
| - Available signature Start Index           | 0 (ASC#3)                                                                                                                  |       |
| - Available signature End Index             | 7 (ASC#3)                                                                                                                  |       |
| - Assigned Sub-Channel Number               | '1111'B<br>The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. |       |
| - ASC Setting                               |                                                                                                                            |       |
| - CHOICE mode                               | FDD                                                                                                                        |       |
| - Available signature Start Index           | 0 (ASC#5)                                                                                                                  |       |
| - Available signature End Index             | 7 (ASC#5)                                                                                                                  |       |
| - Assigned Sub-Channel Number               | '1111'B                                                                                                                    |       |

|                                         |                                                                                                                 |  |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------|--|
|                                         | The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. |  |
| - ASC Setting                           |                                                                                                                 |  |
| - CHOICE mode                           | FDD                                                                                                             |  |
| - Available signature Start Index       | 0 (ASC#7)                                                                                                       |  |
| - Available signature End Index         | 7 (ASC#7)                                                                                                       |  |
| - Assigned Sub-Channel Number           | '1111'B                                                                                                         |  |
|                                         | The first/ leftmost bit of the bit string contains the most significant bit of the Assigned Sub-Channel Number. |  |
| - Persistence scaling factor            | Not present                                                                                                     |  |
| - AC-to-ASC mapping table               |                                                                                                                 |  |
| - AC-to-ASC mapping                     | 6 (AC0-9)                                                                                                       |  |
| - AC-to-ASC mapping                     | 5 (AC10)                                                                                                        |  |
| - AC-to-ASC mapping                     | 4 (AC11)                                                                                                        |  |
| - AC-to-ASC mapping                     | 3 (AC12)                                                                                                        |  |
| - AC-to-ASC mapping                     | 2 (AC13)                                                                                                        |  |
| - AC-to-ASC mapping                     | 1 (AC14)                                                                                                        |  |
| - AC-to-ASC mapping                     | 0 (AC15)                                                                                                        |  |
| - CHOICE mode                           | FDD                                                                                                             |  |
| - Primary CPICH TX power                | 31                                                                                                              |  |
| - Constant value                        | -10                                                                                                             |  |
| - PRACH power offset                    |                                                                                                                 |  |
| - Power Ramp Step                       | 3dB                                                                                                             |  |
| - Preamble Retrans Max                  | 4                                                                                                               |  |
| - RACH transmission parameters          |                                                                                                                 |  |
| - Mmax                                  | 2                                                                                                               |  |
| - NB01min                               | 3 slot                                                                                                          |  |
| - NB01max                               | 10 slot                                                                                                         |  |
| - AICH info                             |                                                                                                                 |  |
| - Channelisation code                   | 3                                                                                                               |  |
| - STTD indicator                        | FALSE                                                                                                           |  |
| - AICH transmission timing              | 0                                                                                                               |  |
| Common E-DCH system info                | Not present                                                                                                     |  |
| Secondary CCPCH system information      | (MP-but treated as if not received by UE)                                                                       |  |
| Secondary CCPCH system information list |                                                                                                                 |  |
| - Secondary CCPCH info                  |                                                                                                                 |  |
| - CHOICE mode                           | FDD                                                                                                             |  |
| - Secondary scrambling code             | Not Present                                                                                                     |  |
| - STTD indicator                        | FALSE                                                                                                           |  |
| - Spreading factor                      | 64                                                                                                              |  |
| - Code number                           | 1                                                                                                               |  |
| - Pilot symbol existence                | FALSE                                                                                                           |  |
| - TFCI existence                        | TRUE (default value)                                                                                            |  |
| - Fixed or Flexible position            | Flexible (default value)                                                                                        |  |
| - Timing offset                         | Not Present                                                                                                     |  |
|                                         | Absence of this IE is equivalent to default value 0                                                             |  |
| - TFCS                                  | (This IE is repeated for TFC number for PCH and FACH.)                                                          |  |
| - CHOICE TFCI signalling                | Normal                                                                                                          |  |

|                                             |                                                               |       |
|---------------------------------------------|---------------------------------------------------------------|-------|
| - TFCI Field 1 information                  |                                                               |       |
| - CHOICE TFCS representation                | Complete reconfiguration                                      |       |
| - TFCS complete reconfiguration information |                                                               |       |
| - CHOICE CTFC Size                          | 2 bit CTFC                                                    |       |
| - CTFC information                          | 0                                                             |       |
| -2 bit CTFC                                 | 0                                                             |       |
| - Power offset information                  | Not Present                                                   |       |
| - CTFC information                          | 1                                                             |       |
| -2 bit CTFC                                 | 1                                                             |       |
| - Power offset information                  | Not Present                                                   |       |
| - CTFC information                          | 2                                                             |       |
| -2 bit CTFC                                 | 2                                                             |       |
| - Power offset information                  | Not Present                                                   |       |
| - CTFC information                          | 3                                                             |       |
| -2 bit CTFC                                 | 3                                                             |       |
| - Power offset information                  | Not Present                                                   |       |
| - FACH/PCH information                      |                                                               |       |
| - TFS                                       | (FACH)                                                        |       |
| - CHOICE Transport channel type             | Common transport channels                                     |       |
| - Dynamic Transport format information      |                                                               |       |
| - RLC Size                                  | 168                                                           |       |
| - Number of TB and TTI List                 |                                                               |       |
| - Number of Transport blocks                | 0                                                             |       |
| - Number of Transport blocks                | 1                                                             |       |
| - Number of Transport blocks                | 2                                                             |       |
| - CHOICE Logical channel List               | ALL                                                           |       |
| - Semi-static Transport Format information  |                                                               |       |
| - Transmission time interval                | 10 ms                                                         |       |
| - Type of channel coding                    | Convolutional                                                 |       |
| - Coding Rate                               | 1/2                                                           |       |
| - Rate matching attribute                   | 220                                                           |       |
| - CRC size                                  | 16 bit                                                        |       |
| - Transport channel Identity                | 13 (for FACH)                                                 |       |
| - CTCH indicator                            | FALSE                                                         |       |
| - PICH info                                 | Not Present                                                   |       |
| - MCCH configuration information            | Not Present                                                   | Rel-6 |
| - CBS DRX Level 1 information               | Not Present                                                   |       |
| - Frequency Band Indicator                  | Not Present                                                   |       |
| - Frequency Band Indicator 2                | Not Present                                                   |       |
| HSDPA cell Indicator                        | Not Present (MD- default is "HSDPA capability not indicated") |       |
| E-DCH cell Indicator                        | Not Present (MD- default is "E-DCH capability not indicated") |       |
| - Secondary CCPCH system information MBMS   |                                                               | Rel-6 |
| - Secondary CCPCH info MBMS                 |                                                               |       |
| - CHOICE Mode                               | 3.84 Mcps TDD MBSFN IMB                                       | Rel-8 |
| - Secondary scrambling code                 | Not Present                                                   | Rel-8 |
| - STTD indicator                            | FALSE                                                         | Rel-8 |
| - Spreading factor                          | 256                                                           | Rel-8 |
| - Code number                               | 2                                                             | Rel-8 |
| - Timing Offset                             | Not present (MD)                                              | Rel-8 |
| - CHOICE Modulation                         | QPSK                                                          | Rel-8 |

|                                             |                                                                                                                                 |  |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--|
| - TFCS                                      |                                                                                                                                 |  |
| - CHOICE TFCI signalling                    | Normal                                                                                                                          |  |
| - TFCI Field 1 information                  |                                                                                                                                 |  |
| - CHOICE TFCS representation                | Complete reconfiguration                                                                                                        |  |
| - TFCS complete reconfiguration information |                                                                                                                                 |  |
| - CHOICE CTFC Size                          | 2 bit CTFC                                                                                                                      |  |
| - CTFC information                          | 0                                                                                                                               |  |
| - 2 bit CTFC                                | 0                                                                                                                               |  |
| - Power offset information                  | Not Present                                                                                                                     |  |
| - CTFC information                          | 1                                                                                                                               |  |
| - 2 bit CTFC                                | 1                                                                                                                               |  |
| - Power offset information                  | Not Present                                                                                                                     |  |
| - CTFC information                          | 2                                                                                                                               |  |
| - 2 bit CTFC                                | 2                                                                                                                               |  |
| - Power offset information                  | Not Present                                                                                                                     |  |
| - CTFC information                          | 3                                                                                                                               |  |
| - 2 bit CTFC                                | 3                                                                                                                               |  |
| - Power offset information                  | Not Present                                                                                                                     |  |
| - FACH carrying MCCH                        |                                                                                                                                 |  |
| - TFS                                       |                                                                                                                                 |  |
| - CHOICE Transport channel type             | Common transport channels                                                                                                       |  |
| - Dynamic Transport format information      |                                                                                                                                 |  |
| - RLC Size                                  | Reference clause 6.11.7 "<br>Reference Radio Bearer<br>configurations used in Radio<br>Bearer testing for 3.84 Mcps<br>TDD IMB" |  |
| - Number of TB and TTI List                 | Reference clause 6.11.7 "<br>Reference Radio Bearer<br>configurations used in Radio<br>Bearer testing for 3.84 Mcps<br>TDD IMB" |  |
| - Number of Transport blocks                | Reference clause 6.11.7 "<br>Reference Radio Bearer<br>configurations used in Radio<br>Bearer testing for 3.84 Mcps<br>TDD IMB" |  |
| - Number of Transport blocks                | remove                                                                                                                          |  |
| - CHOICE Logical channel List               | ALL                                                                                                                             |  |
| - no data                                   |                                                                                                                                 |  |
| - Semi-static Transport Format information  |                                                                                                                                 |  |
| - Transmission time interval                | Reference clause 6.11.7 "<br>Reference Radio Bearer<br>configurations used in Radio<br>Bearer testing for 3.84 Mcps<br>TDD IMB" |  |
| - Type of channel coding                    | turbo                                                                                                                           |  |
| - Coding Rate                               | not present                                                                                                                     |  |
| - Rate matching attribute                   | Reference clause 6.11.7 "<br>Reference Radio Bearer<br>configurations used in Radio<br>Bearer testing for 3.84 Mcps<br>TDD IMB" |  |
| - CRC size                                  | Reference clause 6.11.7 "<br>Reference Radio Bearer<br>configurations used in Radio<br>Bearer testing for 3.84 Mcps<br>TDD IMB" |  |
| - MCCH configuration information            |                                                                                                                                 |  |



|                                                    |                                                               |       |
|----------------------------------------------------|---------------------------------------------------------------|-------|
| - Access Info Period coefficient                   | Reference to clause 11.2.1<br>"MCCH configuration parameters" |       |
| - Repetition Period coefficient                    | Reference to clause 11.2.1<br>"MCCH configuration parameters" |       |
| - Modification period coefficient                  | Reference to clause 11.2.1<br>"MCCH configuration parameters" |       |
| - RLC info MBMS                                    |                                                               |       |
| - DL UM RLC LI size                                | 7                                                             |       |
| - DL Duplication Avoidance and Reordering info     | Not Present                                                   |       |
| - DL Out of sequence delivery info                 |                                                               |       |
| - Timer_OSD                                        | Not Present                                                   |       |
| - Window size OSD                                  | 48                                                            |       |
| - TCTF presence                                    | FALSE                                                         |       |
| - FACH carrying MTCH list                          | Not Present                                                   |       |
| - Scheduling information                           | Not Present                                                   |       |
| - CHOICE Mode                                      | FDD                                                           | Rel-7 |
| - HS-DSCH common system information                | (MP-but treated as if not received by UE)                     | Rel-7 |
| - CCCH mapping info                                |                                                               |       |
| - Logical channel identity                         | 5                                                             |       |
| - MAC-ehs queue identity                           | 1                                                             |       |
| - SRB1 mapping info                                | Not Present                                                   |       |
| - Common MAC-ehs reordering queue list             |                                                               |       |
| - MAC-ehs queue to configure list                  | Configure 2 queues                                            |       |
| - MAC-ehs queue Id                                 | 0                                                             |       |
| - T1                                               | 50ms                                                          |       |
| - Treset                                           | Not Present                                                   |       |
| - MAC-ehs window size                              | 16                                                            |       |
| - MAC-ehs queue Id                                 | 1                                                             |       |
| - T1                                               | 50ms                                                          |       |
| - Treset                                           | Not Present                                                   |       |
| - MAC-ehs window size                              | 16                                                            |       |
| - HS-SCCH system info                              |                                                               |       |
| - DL Scrambling Code                               | Not Present                                                   |       |
| - HS-SCCH Channelisation Code Information          | Use 1 HS-SCCH                                                 |       |
| - HS-SCCH Channelisation Code                      | 7                                                             |       |
| - HARQ system Info                                 |                                                               |       |
| - Number of Processes                              | 1                                                             |       |
| - CHOICE <i>Memory Partitioning</i>                | Implicit                                                      |       |
| - Common H-RNTI Information                        | Use 4                                                         |       |
| - Common H-RNTI                                    | '1111 1010 1010 1010'                                         |       |
| - Common H-RNTI                                    | '1111 1010 1010 1011'                                         |       |
| - Common H-RNTI                                    | '1111 1010 1010 1100'                                         |       |
| - Common H-RNTI                                    | '1111 1010 1010 1110'                                         |       |
| - BCCH specific H-RNTI                             | '1111 1010 1110 1010'                                         |       |
| - HS-DSCH paging system information                | Not Present                                                   | Rel-7 |
| TDD MBSFN information                              | not present                                                   | Rel-7 |
| HS-DSCH DRX in CELL_FACH Information               | not present                                                   | Rel-8 |
| HS-DSCH DRX in CELL_FACH Information 1.28 Mcps TDD | not present                                                   | Rel-8 |
|                                                    |                                                               |       |

## Contents of System Information Block type 5 for cell No.31 (1.28 Mcps TDD)

|                                            |                                             |
|--------------------------------------------|---------------------------------------------|
| - SIB6 indicator                           | FALSE                                       |
| - PICH Power offset                        | 0 dB                                        |
| - CHOICE Mode                              | TDD                                         |
| - PUSCH system information                 | Not Present                                 |
| - PUSCH system information VHCR            | Not Present                                 |
| - PDSCH system information                 | Not Present                                 |
| - TDD open loop power control              | (MP - but treated as if not received by UE) |
| - Primary CCPCH Tx Power                   | 30 dbm                                      |
| - CHOICE <i>TDD option</i>                 | 1.28 Mcps TDD                               |
| - Primary CCPCH info                       | Not Present                                 |
| - PRACH system information list            | (MP - but treated as if not received by UE) |
| - PRACH system information                 |                                             |
| - PRACH info                               |                                             |
| - CHOICE <i>mode</i>                       | TDD                                         |
| - CHOICE <i>TDD option</i>                 | 1.28 Mcps TDD                               |
| - SYNC_UL info                             |                                             |
| - SYNC_UL codes bitmap                     | "11111111"                                  |
| - UL Target SIR                            | 10 dB                                       |
| - Power Ramping Step                       | 3 dB                                        |
| - Max SYNC_UL Transmissions                | 8                                           |
| - Mmax                                     | 32                                          |
| - PRACH definition                         |                                             |
| - Timeslot number                          |                                             |
| - CHOICE TDD option                        | 1.28 Mcps TDD                               |
| - Timeslot number                          | 1                                           |
| - PRACH Channelisation Code                |                                             |
| - Channelisation Code List                 |                                             |
| - Channelisation Code                      | (8/1)                                       |
| - Midamble Shift and burst type            |                                             |
| - CHOICE TDD option                        | 1.28 Mcps TDD                               |
| - Midamble Allocation Mode                 | Default midamble                            |
| - Midamble configuration                   | 8                                           |
| - Midamble Shift                           | Not present                                 |
| - FPACH info                               |                                             |
| - Timeslot number                          | 6                                           |
| - Channelisation code                      | (16/16)                                     |
| - Midamble Shift and burst type            |                                             |
| - CHOICE TDD option                        | 1.28 Mcps TDD                               |
| - Midamble Allocation Mode                 | Common Midamble                             |
| - Midamble configuration                   | 8                                           |
| - Midamble Shift                           | Not present                                 |
| - WT                                       | 4                                           |
| - Transport channel Identity               | 15                                          |
| - RACH TFS                                 |                                             |
| - CHOICE Transport channel type            | Common transport channels                   |
| - Dynamic Transport format information     |                                             |
| - RLC size                                 | 16                                          |
| - Number of TBs and TTI List               |                                             |
| - Number of Transport blocks               | 0                                           |
| - CHOICE <i>mode</i>                       | TDD                                         |
| - Transmission Time Interval               | Not Present                                 |
| - CHOICE Logical channel List              | ALL                                         |
| - Semi-static Transport Format information |                                             |
| - Transmission time interval               | 10                                          |
| - Type of channel coding                   | No coding                                   |
| - Coding Rate                              | Not Present                                 |
| - Rate matching attribute                  | 1                                           |
| - CRC size                                 | 0                                           |
| - Additional RACH TFS for CCCH             | Not present                                 |
| - RACH TFCS                                | Not present                                 |
| - Additional RACH TFCS for CCCH            | Not present                                 |
| - PRACH partitioning                       |                                             |
| - Access Service Class                     |                                             |
| - ASC Settings                             | Not Present (Default all)                   |
| - Persistence scaling factors              | Not Present                                 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping table</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- AC-to-ASC mapping</li> <li>- CHOICE <i>mode</i></li> <li>- Secondary CCPCH system information</li> <li>- Secondary CCPCH system information list</li> <li>- Secondary CCPCH info</li> <li>- CHOICE <i>mode</i></li> <li>- Offset</li> <li>- Common timeslot info</li> <li>- 2<sup>nd</sup> interleaving mode</li> <li>- TFCI coding</li> <li>- Puncturing limit</li> <li>- Repetition period</li> <li>- Repetition length</li> <li>- Individual timeslot info</li> <li>- CHOICE <i>TDD option</i></li> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble Shift and burst type</li> <li>- CHOICE <i>TDD option</i></li> <li>- Midamble Allocation Mode</li> <li>- Midamble configuration</li> <li>- CHOICE <i>TDD option</i></li> <li>- Modulation</li> <li>- SS-TPC Symbols</li> <li>- Code List</li> <li>- Channelisation Code</li> <li>- TFCS</li> <li>- FACH/PCH information list</li> <li>- PICH info</li> <li>- MCCH configuration information</li> <li>- CBS DRX Level 1 information</li> <li>- Frequency band indicator</li> <li>- Frequency band indicator 2</li> <li>- HSDPA cell Indicator</li> <li>- E-DCH cell Indicator</li> </ul> | <ul style="list-style-type: none"> <li>6 (AC0-9)</li> <li>5 (AC10)</li> <li>4 (AC11)</li> <li>3 (AC12)</li> <li>2 (AC13)</li> <li>1 (AC14)</li> <li>0 (AC15)</li> <li>TDD (no data)</li> <li>(MP - but treated as if not received by UE)</li> <li>(MP - but treated as if not received by UE)</li> <li>1.28 Mcps TDD or 3.84 Mcps TDD</li> <li>0</li> <li>Not Present (MD "Frame")</li> <li>Not Present (MD)</li> <li>1.0</li> <li>Not Present (MD "1")</li> <li>Not present (empty)</li> <li>1.28 Mcps TDD</li> <li>1</li> <li>FALSE</li> <li>1.28 Mcps TDD</li> <li>Default midamble</li> <li>16</li> <li>1.28 Mcps TDD</li> <li>QPSK</li> <li>1</li> <li>16/1</li> <li>Not Present</li> <li>Not Present</li> <li>Not Present</li> <li>Not Present</li> <li>Not Present</li> <li>Not Present</li> <li>Not Present</li> <li>Not Present (Default 'HSDPA capability not indicated')</li> <li>Not Present (Default 'E-DCH capability not indicated')</li> </ul> |
| <ul style="list-style-type: none"> <li>- Secondary CCPCH system information MBMS</li> <li>- Secondary CCPCH system information</li> <li>- Secondary CCPCH info MBMS</li> <li>- CHOICE <i>mode</i></li> <li>- Common timeslot info MBMS</li> <li>- 2<sup>nd</sup> interleaving mode</li> <li>- TFCI coding</li> <li>- Puncturing limit</li> <li>- Downlink Timeslots and Codes</li> <li>- First Individual timeslot info</li> <li>- Timeslot number</li> <li>- CHOICE <i>TDD option</i></li> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble Shift and burst type</li> <li>- CHOICE <i>TDD option</i></li> <li>- Midamble Allocation Mode</li> <li>- Midamble configuration</li> <li>- CHOICE <i>TDD option</i></li> <li>- Modulation</li> <li>- SS-TPC Symbols</li> <li>- First timeslot channelisation codes</li> <li>- CHOICE <i>codes representation</i></li> <li>- CHOICE <i>more timeslots</i></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>1.28 Mcps TDD</li> <li>Frame</li> <li>Reference clause 6.11 "Parameter Set"</li> <li>Reference clause 6.11 "Parameter Set"</li> <li>1.28 Mcps TDD</li> <li>0</li> <li>FALSE</li> <li>1.28 Mcps TDD</li> <li>Default midamble</li> <li>16</li> <li>1.28 Mcps TDD</li> <li>QPSK</li> <li>1</li> <li>Reference clause 5.5.2 "Downlink physical channels code allocation for Signalling"</li> <li>No more timeslots</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- no data</li> <li>- MBSFN Special Time Slot</li> <li>- Modulation</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TS7<br>QPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>- TFCS</li> <li>- CHOICE <i>TFCI signalling</i></li> <li>- TFCI Field 1 information</li> <li>- CHOICE <i>TFCS representation</i></li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE <i>CTFC Size</i></li> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Normal TFCI signalling<br><br>Complete reconfiguration<br><br>2 bit<br><br>0<br>Not Present<br><br>1<br>Not Present<br><br>2<br>Not Present<br><br>3<br>Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>- FACH carrying MCCH</li> <li>- TFS</li> <li>- CHOICE <i>Transport channel type</i></li> <li>- Dynamic Transport Format Information</li> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE <i>mode</i></li> <li>- Transmission Time Interval</li> <li>- CHOICE <i>Logical Channel List</i></li> <li>- no data</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- MCCH configuration information</li> <li>- Access Info Period coefficient</li> <li>- Repetition Period coefficient</li> <li>- Modification period coefficient</li> <li>- RLC info</li> <li>- DL UM RLC LI size</li> <li>- DL Duplication Avoidance and Reordering info</li> <li>- DL Out of sequence delivery info</li> <li>- Timer_OSD</li> <li>- Window size OSD</li> <li>- TCTF presence</li> <li>- FACH carrying MTCH list</li> <li>- Scheduling information</li> <li>- CHOICE <i>mode</i></li> <li>- no data</li> <li>- TDD MBSFN information</li> <li>- Time slot list</li> <li>- Timeslot Number</li> <li>- CHOICE <i>TDD option</i></li> <li>- Timeslot number</li> <li>- Cell parameters ID</li> <li>- Timeslot Number</li> <li>- CHOICE <i>TDD option</i></li> <li>- Timeslot number</li> <li>- Cell parameters ID</li> </ul> | Common transport channels<br><br>Reference clause 6.11 "Parameter Set"<br>Reference clause 6.11 "Parameter Set"<br>Reference clause 6.10 "Parameter Set"<br>TDD<br>Not Present<br>ALL<br><br>Reference clause 6.11 "Parameter Set"<br>Turbo<br>Not Present<br>Reference clause 6.11 "Parameter Set"<br>Reference clause 6.11 "Parameter Set"<br><br>Reference clause 11.1.1 "MCCH configuration parameters"<br>Reference clause 11.1.1 "MCCH configuration parameters"<br>Reference clause 11.1.1 "MCCH configuration parameters"<br><br>7<br>Not Present<br><br>Not Present<br>48<br>FALSE<br>Not Present<br>Not Present<br>TDD<br><br>(This list describes all Timeslots (0...6) in the frame)<br><br>1.28 Mcps TDD<br>0<br>1<br>(Repeated for each Timeslot (1...6))<br>1.28 Mcps TDD<br>(1...6)<br>5 (Repeated for each Timeslot (1...6)) |

Contents of System Information Block type 5 for cell No.31 (7.68 Mcps TDD)

|                                            |                                             |
|--------------------------------------------|---------------------------------------------|
| - SIB6 indicator                           | FALSE                                       |
| - PICH Power offset                        | 0 dB                                        |
| - CHOICE Mode                              | TDD                                         |
| - PUSCH system information                 | Not Present                                 |
| - PUSCH system information VHCR            | Not Present                                 |
| - PDSCH system information                 | Not Present                                 |
| - TDD open loop power control              |                                             |
| - Primary CCPCH Tx Power                   | 30 dbm                                      |
| - CHOICE TDD option                        | 7.68 Mcps TDD                               |
| - Alpha                                    | Not Present                                 |
| - PRACH Constant Value                     | -10                                         |
| - DPCH Constant Value                      | -10                                         |
| - PUSCH Constant Value                     | Not Present                                 |
| - UE positioning related parameters        | Not Present                                 |
| - Primary CCPCH info                       | Not Present                                 |
| - PRACH system information list            |                                             |
| - PRACH system information                 |                                             |
| - PRACH info                               |                                             |
| - CHOICE mode                              | TDD                                         |
| - CHOICE TDD option                        | 7.68 Mcps TDD                               |
| - Timeslot number                          | 14                                          |
| - PRACH Channelisation Code List VHCR      |                                             |
| - CHOICE SF                                | SF16                                        |
| - Channelisation Code List                 |                                             |
| - Channelisation Code                      | 16/1                                        |
| - PRACH Midamble                           | Direct                                      |
| - PNBSCH allocation                        | Not Present                                 |
| - Transport channel Identity               | 15                                          |
| - RACH TFS                                 |                                             |
| - CHOICE Transport channel type            | Common transport channels                   |
| - Dynamic Transport format information     |                                             |
| - RLC size                                 | 16                                          |
| - Number of TBs and TTI List               |                                             |
| - Number of Transport blocks               | 0                                           |
| - CHOICE Mode                              | TDD                                         |
| - Transmission Time Interval               | Not Present                                 |
| - CHOICE Logical channel List              | ALL                                         |
| - Semi-static Transport Format information |                                             |
| - Transmission time interval               | 10                                          |
| - Type of channel coding                   | No coding                                   |
| - Coding Rate                              | Not Present                                 |
| - Rate matching attribute                  | 1                                           |
| - CRC size                                 | 0                                           |
| - Additional RACH TFS for CCCH             | Not present                                 |
| - RACH TFCS                                | Not present                                 |
| - Additional RACH TFCS for CCCH            | Not present                                 |
| - Persistence scaling factors              | Not Present                                 |
| - AC-to-ASC mapping                        |                                             |
| - AC-to-ASC mapping table                  |                                             |
| - AC-to-ASC mapping                        | 6 (AC0-9)                                   |
| - AC-to-ASC mapping                        | 5 (AC10)                                    |
| - AC-to-ASC mapping                        | 4 (AC11)                                    |
| - AC-to-ASC mapping                        | 3 (AC12)                                    |
| - AC-to-ASC mapping                        | 2 (AC13)                                    |
| - AC-to-ASC mapping                        | 1 (AC14)                                    |
| - AC-to-ASC mapping                        | 0 (AC15)                                    |
| - CHOICE mode                              | TDD (no data)                               |
| - Secondary CCPCH system information       | (MP - but treated as if not received by UE) |
| - Secondary CCPCH system information list  | (MP - but treated as if not received by UE) |
| - Secondary CCPCH info                     |                                             |
| - CHOICE mode                              | 7.68 Mcps TDD                               |
| - Offset                                   | 0                                           |
| - Common timeslot info                     |                                             |
| - 2 <sup>nd</sup> interleaving mode        | Not Present (MD "Frame")                    |
| - TFCI coding                              | Not Present (MD)                            |
| - Puncturing limit                         | 1.0                                         |
| - Repetition period                        | Not Present (MD "1")                        |
| - Repetition length                        | Not present (empty)                         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Individual timeslot info</li> <li>- CHOICE TDD option</li> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble Shift and burst type</li> <li>- CHOICE <i>TDD option</i> <ul style="list-style-type: none"> <li>- CHOICE Burst Type</li> <li>- no data</li> </ul> </li> <li>- CHOICE <i>TDD option</i> <ul style="list-style-type: none"> <li>- no data</li> </ul> </li> <li>- Code List</li> <li>- Channelisation Code</li> <li>- TFCS</li> <li>-CHOICE <i>TFCI signalling</i> <ul style="list-style-type: none"> <li>- TFCI Field 1 information</li> <li>- CHOICE <i>TFCS representation</i></li> </ul> </li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE <i>CTFC Size</i> <ul style="list-style-type: none"> <li>- CTFC information</li> <li>- 2 bit CTFC</li> <li>- Power offset information</li> </ul> </li> <li>- FACH/PCH information</li> <li>- TFS</li> <li>- CHOICE <i>Transport channel type</i></li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>7.68 Mcps TDD</p> <p>1</p> <p>FALSE</p> <p>7.68 Mcps TDD</p> <p>MBSFN Burst Type</p> <p>7.68 Mcps TDD</p> <p>32/1</p> <p>(MP - but treated as if not received by UE)</p> <p>Normal TFCI signalling</p> <p>Complete reconfiguration</p> <p>2 bit CTFC</p> <p>0</p> <p>Not Present</p> <p>(MP - but treated as if not received by UE)</p> <p>(PCH)</p> <p>Common transport channels</p> <p>16</p>                                                                                                                                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>- Number of TBs and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE <i>mode</i> <ul style="list-style-type: none"> <li>- Transmission Time Interval</li> </ul> </li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul> </li> <li>- Transport channel Identity</li> <li>- CTCH indicator</li> <li>- PICH info</li> <li>- MCCH configuration information</li> <li>- CBS DRX Level 1 information</li> <li>- Frequency band indicator</li> <li>- Frequency band indicator 2</li> <li>- HSDPA cell Indicator</li> <li>- E-DCH cell Indicator</li> <li>- Secondary CCPCH system information MBMS</li> <li>- Secondary CCPCH system information</li> <li>- Secondary CCPCH info MBMS <ul style="list-style-type: none"> <li>- CHOICE <i>mode</i> <ul style="list-style-type: none"> <li>- Common timeslot info MBMS <ul style="list-style-type: none"> <li>- 2<sup>nd</sup> interleaving mode</li> </ul> </li> <li>- TFCI coding</li> <li>- Puncturing limit</li> </ul> </li> <li>- Downlink Timeslots and Codes VHCR- <ul style="list-style-type: none"> <li>- First Individual timeslot info <ul style="list-style-type: none"> <li>- Timeslot number</li> <li>- CHOICE <i>TDD option</i> <ul style="list-style-type: none"> <li>- Timeslot number</li> </ul> </li> <li>- TFCI existence</li> <li>- Midamble Shift and burst type</li> <li>- CHOICE <i>TDD option</i> <ul style="list-style-type: none"> <li>- CHOICE <i>Burst Type</i> <ul style="list-style-type: none"> <li>- no data</li> </ul> </li> </ul> </li> <li>- CHOICE <i>TDD option</i> <ul style="list-style-type: none"> <li>- no data</li> </ul> </li> </ul> </li> <li>- First timeslot channelisation codes VHCR</li> <li>- CHOICE <i>codes representation</i></li> </ul> </li></ul></li></ul> | <p>0</p> <p>TDD</p> <p>10</p> <p>ALL</p> <p>10</p> <p>No coding</p> <p>Not Present</p> <p>1</p> <p>0</p> <p>1</p> <p>FALSE</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present (Default 'HSDPA capability not indicated')</p> <p>Not Present (Default 'E-DCH capability not indicated')</p> <p>7.68 Mcps TDD</p> <p>Frame</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>7.68 Mcps TDD</p> <p>0</p> <p>Reference clause 6.10 "Parameter Set"</p> <p>7.68 Mcps TDD</p> <p>MBSFN Burst Type</p> <p>7.68 Mcps TDD</p> <p>Reference clause 5.5.2 "Downlink physical channels code</p> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- CHOICE <i>more timeslots</i></li> <li>- no data</li> <li>- Modulation</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | allocation for Signalling"<br>No more timeslots<br>QPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>- TFCS</li> <li>- CHOICE <i>TFCI signalling</i></li> <li>- TFCI Field 1 information</li> <li>- CHOICE <i>TFCS representation</i></li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE <i>CTFC Size</i></li> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset information</li> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Normal TFCI signalling<br>Complete reconfiguration<br>2 bit<br>0<br>Not Present<br>1<br>Not Present<br>2<br>Not Present<br>3<br>Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>- FACH carrying MCCH</li> <li>- TFS</li> <li>- CHOICE <i>Transport channel type</i></li> <li>- Dynamic Transport Format Information</li> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Number of Transport blocks</li> <li>- CHOICE <i>mode</i></li> <li>- Transmission Time Interval</li> <li>- CHOICE <i>Logical Channel List</i></li> <li>- no data</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- MCCH configuration information</li> <li>- Access Info Period coefficient</li> <li>- Repetition Period coefficient</li> <li>- Modification period coefficient</li> <li>- RLC info</li> <li>- DL UM RLC LI size</li> <li>- DL Duplication Avoidance and Reordering info</li> <li>- DL Out of sequence delivery info</li> <li>- Timer_OSD</li> <li>- Window size OSD</li> <li>- TCTF presence</li> <li>- FACH carrying MTCH list</li> <li>- Scheduling information</li> <li>- CHOICE <i>mode</i></li> <li>- no data</li> <li>- TDD MBSFN information</li> <li>- Time slot list</li> <li>- Timeslot Number</li> <li>- CHOICE <i>TDD option</i></li> <li>- Timeslot number</li> <li>- Cell parameters ID</li> <li>- Timeslot Number</li> <li>- CHOICE <i>TDD option</i></li> <li>- Timeslot number</li> <li>- Cell parameters ID</li> </ul> | Common transport channels<br>Reference clause 6.10 "Parameter Set"<br>Reference clause 6.10 "Parameter Set"<br>Reference clause 6.10 "Parameter Set"<br>TDD<br>Not Present<br>ALL<br>Reference clause 6.10 "Parameter Set"<br>Turbo<br>Not Present<br>Reference clause 6.10 "Parameter Set"<br>Reference clause 6.10 "Parameter Set"<br>Reference clause 11.1.1 "MCCH configuration parameters"<br>Reference clause 11.1.1 "MCCH configuration parameters"<br>Reference clause 11.1.1 "MCCH configuration parameters"<br>7<br>Not Present<br>Not Present<br>48<br>false<br>Not Present<br>Not Present<br>TDD<br>(This IE is repeated for all Timeslots (0...14) in the frame)<br>7.68 Mcps TDD<br>0<br>1<br>(Repeated for each Timeslot (1...14))<br>7.68 Mcps TDD<br>(1...14)<br>5 (Repeated for each Timeslot (1...14)) |

Contents of System Information Block type 11 for cell No.31 (FDD)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- SIB 12 Indicator</li> <li>- FACH measurement occasion info</li> <li>- Measurement control system information</li> <li>- Use of HCS</li> <li>- Cell selection and reselection quality measureCell</li> <li>- Intra-frequency measurement system information</li> <li>- Intra-frequency measurement identity</li> <li>- Intra-frequency cell info list</li> <li>- CHOICE <i>intra-frequency cell removal</i></li> <li>- New intra-frequency cells</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN Indicator</li> <li>- CHOICE <i>mode</i></li> <li>- Primary CCPCH info</li> <li>- Primary scrambling code</li> <li>- Primary CCPCH TX power</li> <li>- TX Diversity indicator</li> <li>- Cell Selection and Re-selection info</li> </ul> | <p>FALSE<br/>Not Present</p> <p>Not used<br/>CPICH RSCP</p> <p>Not Present</p> <p>Not present</p> <p>31</p> <p>Not present (MD)<br/>Absence of this IE is equivalent to default value 0 dB</p> <p>Not Present<br/>FALSE<br/>FDD</p> <p>Refer to clause titled "Default settings for cell No.31 (FDD)" in clause 6.1.4.4</p> <p>Not Present<br/>FALSE<br/>Not Present<br/>(The IE shall be absent as this is the serving cell)</p>                         |
| <ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN Indicator</li> <li>- CHOICE <i>mode</i></li> <li>- Primary CCPCH info</li> <li>- Primary scrambling code</li> <li>- Primary CCPCH TX power</li> <li>- TX Diversity indicator</li> <li>- Cell Selection and Re-selection info</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>32</p> <p>Not present (MD)<br/>Absence of this IE is equivalent to default value 0 dB</p> <p>Not Present<br/>FALSE<br/>FDD</p> <p>Refer to clause titled "Default settings for cell No.32 (FDD)" in clause 6.1.4.4</p> <p>Not Present<br/>FALSE<br/>Not Present<br/>(The IE shall be absent as this is the serving cell)</p>                                                                                                                           |
| <ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>37</p> <p>Same content as specified for intra-frequency cell id=32 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.37 (FDD)" in clause 6.1.4.4</p> <p>38</p> <p>Same content as specified for intra-frequency cell id=32 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (FDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> <li>- Cells for measurement</li> <li>- Intra-frequency measurement quantity</li> <li>- Intra-frequency reporting quantity for RACH Reporting</li> <li>- Maximum number of reported cells on RACH</li> <li>- Reporting information for state CELL_DCH</li> <li>- Inter-frequency measurement system information</li> <li>- Inter-RAT measurement system information</li> <li>- Traffic volume measurement system information</li> <li>- MBSFN frequency list</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                   | <p>Not Present<br/>Not Present<br/>Not Present</p> <p>Not Present<br/>Not Present<br/>Not Present<br/>Not Present<br/>Not Present<br/>Not Present-</p>                                                                                                                                                                                                                                                                                                    |

## Contents of System Information Block type 11 for cell No.31 (3.84 Mcps and 7.68 Mcps TDD)

|                                                                                                                                                                                                                                                                                                                |                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- SIB 12 Indicator</li> <li>- FACH measurement occasion info</li> <li>- Measurement control system information</li> <li>- Use of HCS</li> <li>- Cell selection and reselection quality measureCell</li> <li>- Intra-frequency measurement system information</li> </ul> | <p>FALSE<br/>Not Present</p> <p>Not used<br/>CPICH RSCP</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Intra-frequency measurement identity</li> <li>- Intra-frequency cell info list</li> <li>- CHOICE <i>intra-frequency cell removal</i></li> <li>- New intra-frequency cells</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN Indicator</li> <li>- CHOICE <i>mode</i></li> <li>- Primary CCPCH info</li> <li>- CHOICE <i>mode</i></li> <li>- CHOICE <i>TDD option</i></li> <li>- CHOICE <i>SyncCase</i></li> <li>- Cell parameters ID</li> <li>- SCTD indicator</li> <li>- Primary CCPCH TX power</li> <li>- Timeslot list</li> <li>- Cell Selection and Re-selection info</li> </ul> | <p>Not Present</p> <p>Not present</p> <p>31</p> <p>Not present (MD)</p> <p>Not Present</p> <p>FALSE</p> <p>TDD</p> <p>TDD</p> <p>3.84 and 7.68 Mcps TDD</p> <p>Not Present</p> <p>Refer to clause titled "Default settings for cell No.31 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> <p>FALSE</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>(The IE shall be absent as this is the serving cell)</p>                                                                                                                                                                                                                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN Indicator</li> <li>- CHOICE <i>mode</i></li> <li>- Primary CCPCH info</li> <li>- CHOICE <i>mode</i></li> <li>- CHOICE <i>TDD option</i></li> <li>- CHOICE <i>SyncCase</i></li> <li>- Cell parameters ID</li> <li>- Primary CCPCH TX power</li> <li>- Timeslot list</li> <li>- Cell Selection and Re-selection info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul>                                                                                                | <p>32</p> <p>Not present (MD)</p> <p>Not Present</p> <p>FALSE</p> <p>TDD</p> <p>TDD</p> <p>3.84 and 7.68 Mcps TDD</p> <p>Not Present</p> <p>Refer to clause titled "Default settings for cell No.32 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>37</p> <p>Same content as specified for intra-frequency cell id=32 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.37 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> <p>38</p> <p>Same content as specified for intra-frequency cell id=32 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> <li>- Cells for measurement</li> <li>- Intra-frequency measurement quantity</li> <li>- Intra-frequency reporting quantity for RACH Reporting</li> <li>- Maximum number of reported cells on RACH</li> <li>- Reporting information for state CELL_DCH</li> <li>- Inter-frequency measurement system information</li> <li>- Inter-RAT measurement system information</li> <li>- Traffic volume measurement system information</li> <li>- MBSFN frequency list</li> </ul>                                                                                                                                                                                                                             | <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Contents of System Information Block type 11 for cell No.31 (3.84 Mcps TDD IMB)

|                                                      |             |
|------------------------------------------------------|-------------|
| - SIB 12 Indicator                                   | FALSE       |
| - FACH measurement occasion info                     | Not Present |
| - Measurement control system information             |             |
| - Use of HCS                                         | Not used    |
| - Cell selection and reselection quality measureCell | CPICH RSCP  |

|                                                  |              |
|--------------------------------------------------|--------------|
| - Intra-frequency measurement system information | Not present  |
| - Inter-frequency measurement system information | Not Present  |
| - Inter-RAT measurement system information       | Not Present  |
| - Traffic volume measurement system information  | Not Present  |
| - MBSFN frequency list                           | Not Present- |

## Contents of System Information Block type 11 for cell No.31 (1.28 Mcps TDD)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- SIB 12 Indicator</li> <li>- FACH measurement occasion info</li> <li>- Measurement control system information</li> <li>- Use of HCS</li> <li>- Cell selection and reselection quality measureCell</li> <li>- Intra-frequency measurement system information</li> <li>- Intra-frequency measurement identity</li> <li>- Intra-frequency cell info list</li> <li>- CHOICE <i>intra-frequency cell removal</i></li> <li>- New intra-frequency cells</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN Indicator</li> <li>- CHOICE <i>mode</i></li> <li>- Primary CCPCH info</li> <li>- CHOICE <i>mode</i></li> <li>- CHOICE <i>TDD option</i></li> <li>- TSTD indicator</li> <li>- Cell parameters ID</li> <li>- SCTD indicator</li> <li>- Primary CCPCH TX power</li> <li>- Timeslot list</li> <li>- Cell Selection and Re-selection info</li> </ul> | <p>FALSE</p> <p>Not Present</p> <p>Not used</p> <p>CPICH RSCP</p> <p>Not Present</p> <p>Not present</p> <p>31</p> <p>Not present (MD)</p> <p>Not Present</p> <p>FALSE</p> <p>TDD</p> <p>TDD</p> <p>1.28 Mcps TDD</p> <p>FALSE</p> <p>Refer to clause titled "Default settings for cell No.31 (1.28 Mcps TDD)" in clause 6.1.4.4</p> <p>FALSE</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>(The IE shall be absent as this is the serving cell)</p>                                                                                                                                                                                                                                                                                              |
| <ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN Indicator</li> <li>- CHOICE <i>mode</i></li> <li>- Primary CCPCH info</li> <li>- CHOICE <i>mode</i></li> <li>- CHOICE <i>TDD option</i></li> <li>- TSTD indicator</li> <li>- Cell parameters ID</li> <li>- Primary CCPCH TX power</li> <li>- Timeslot list</li> <li>- Cell Selection and Re-selection info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul>                                                                                                                                                                                                                                                                                                                                                                      | <p>32</p> <p>Not present (MD)</p> <p>Not Present</p> <p>FALSE</p> <p>TDD</p> <p>TDD</p> <p>1.28 Mcps TDD</p> <p>FALSE</p> <p>Refer to clause titled "Default settings for cell No.32 (1.28 Mcps TDD)" in clause 6.1.4.4</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>37</p> <p>Same content as specified for intra-frequency cell id=32 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.37 (1.28 Mcps TDD)" in clause 6.1.4.4</p> <p>38</p> <p>Same content as specified for intra-frequency cell id=32 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (1.28 Mcps TDD)" in clause 6.1.4.4</p> |
| <ul style="list-style-type: none"> <li>- Cells for measurement</li> <li>- Intra-frequency measurement quantity</li> <li>- Intra-frequency reporting quantity for RACH Reporting</li> <li>- Maximum number of reported cells on RACH</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                                                  |             |
|--------------------------------------------------|-------------|
| - Reporting information for state CELL_DCH       | Not Present |
| - Inter-frequency measurement system information | Not Present |
| - Inter-RAT measurement system information       | Not Present |
| - Traffic volume measurement system information  | Not Present |
| - MBSFN frequency list                           | Not Present |

## Cell No.32

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.32 are identical to those of cell No.31 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0000B |
|---------------|-------------------------------------|

## Default settings for cell No.32 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 170                                        |

## Default settings for cell No.32 (TDD)

|                              |                        |
|------------------------------|------------------------|
| Downlink input level         | Reference clause 6.1.6 |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description     |                        |
| - Primary CCPCH info         |                        |
| - Cell parameters ID         | 9                      |

## Default settings for cell No.31 (3.84 Mcps TDD IMB)

|                              |                                                                           |
|------------------------------|---------------------------------------------------------------------------|
| Downlink input level         | Reference clause 6.1.6.1 "Reference Radio Conditions (3.84 Mcps TDD IMB)" |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2                                                    |
| Cell Channel Description     |                                                                           |
| - Primary CPICH info         |                                                                           |
| - Primary scrambling code    | 256                                                                       |

## Contents of System Information Block type 5 for cell No.32 (FDD)

FFS

## Contents of System Information Block type 5 for cell No.32 (3.84 Mcps TDD)

|                                |                                                           |
|--------------------------------|-----------------------------------------------------------|
| <b>- TDD MBSFN information</b> |                                                           |
| - Time slot list               | (This list describes all Timeslots (0...14) in the frame) |
| - Timeslot Number              |                                                           |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD                                             |
| - Timeslot number              | 0                                                         |
| - Cell parameters ID           | 9                                                         |
| - Timeslot Number              | (Repeated for each Timeslot (1...14))                     |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD                                             |
| - Timeslot number              | (1...14)                                                  |
| - Cell parameters ID           | 5 (Repeated for each Timeslot (1...14))                   |

## Contents of System Information Block type 5 for cell No.32 (1.28 Mcps TDD)

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| <b>- TDD MBSFN information</b> |                                                          |
| - Time slot list               | (This list describes all Timeslots (0...6) in the frame) |
| - Timeslot Number              |                                                          |

|                            |                                        |
|----------------------------|----------------------------------------|
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD                          |
| - Timeslot number          | 0                                      |
| - Cell parameters ID       | 9                                      |
| - Timeslot Number          | (Repeated for each Timeslot (1...6))   |
| - CHOICE <i>TDD option</i> | 1.28 Mcps TDD                          |
| - Timeslot number          | (1...6)                                |
| - Cell parameters ID       | 5 (Repeated for each Timeslot (1...6)) |

## Contents of System Information Block type 5 for cell No.32 (7.68 Mcps TDD)

|                                |                                                           |
|--------------------------------|-----------------------------------------------------------|
| <b>- TDD MBSFN information</b> |                                                           |
| - Time slot list               | (This list describes all Timeslots (0...14) in the frame) |
| - Timeslot Number              |                                                           |
| - CHOICE <i>TDD option</i>     | 7.68 Mcps TDD                                             |
| - Timeslot number              | 0                                                         |
| - Cell parameters ID           | 9                                                         |
| - Timeslot Number              | (Repeated for each Timeslot (1...14))                     |
| - CHOICE <i>TDD option</i>     | 7.68 Mcps TDD                                             |
| - Timeslot number              | (1...14)                                                  |
| - Cell parameters ID           | 5 (Repeated for each Timeslot (1...14))                   |

## Contents of System Information Block type 11 for cell No.32 (FDD)

|                                                         |                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                     |
| ....                                                    |                                                                                                                                                                                                                                                                     |
| - New intra-frequency cells                             |                                                                                                                                                                                                                                                                     |
| - Intra-frequency cell id                               | 32                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.32 (FDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id                               | 31                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id                               | 37                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.37 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id                               | 38                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (FDD)" in clause 6.1.4.4 |

## Contents of System Information Block type 11 for cell No.32 (3.84 Mcps and 7.68 Mcps TDD)

|                                                         |                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                                  |
| ....                                                    |                                                                                                                                                                                                                                                                                  |
| - New intra-frequency cells                             |                                                                                                                                                                                                                                                                                  |
| - Intra-frequency cell id                               | 32                                                                                                                                                                                                                                                                               |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.32 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id                               | 31                                                                                                                                                                                                                                                                               |

|                           |                                                                                                                                                                                                                                                                                    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 37                                                                                                                                                                                                                                                                                 |
| - Cell info               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.37 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 38                                                                                                                                                                                                                                                                                 |
| - Cell info               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |

## Contents of System Information Block type 11 for cell No.32 (1.28 Mcps TDD)

|                                                         |                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                               |
| ....                                                    |                                                                                                                                                                                                                                                                               |
| - New intra-frequency cells                             |                                                                                                                                                                                                                                                                               |
| - Intra-frequency cell id                               | 32                                                                                                                                                                                                                                                                            |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.32 (1.28 Mcps TDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id                               | 31                                                                                                                                                                                                                                                                            |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id                               | 37                                                                                                                                                                                                                                                                            |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.37 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id                               | 38                                                                                                                                                                                                                                                                            |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (1.28 Mcps TDD)" in clause 6.1.4.4 |

## Cell No.33

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.33 are identical to those of cell No.31 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0001B |
|---------------|-------------------------------------|

## Default settings for cell No.33 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 220                                        |

## Default settings for cell No.33 (TDD)

|                              |                        |
|------------------------------|------------------------|
| Downlink input level         | Reference clause 6.1.6 |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description     |                        |
| - Primary CCPCH info         |                        |
| - Cell parameters ID         | 126                    |

## Default settings for cell No.33 (3.84 Mcps TDD IMB)

|                              |                                                                            |
|------------------------------|----------------------------------------------------------------------------|
| Downlink input level         | Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2                                                     |
| Cell Channel Description     |                                                                            |
| - Primary CPICH info         |                                                                            |
| - Primary scrambling code    | 384                                                                        |

## Contents of System Information Block type 5 for cell No.33 (FDD)

FFS

## Contents of System Information Block type 5 for cell No.33 (3.84 Mcps and 7.68 Mcps TDD)

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| <b>- TDD MBSFN information</b> |                                                 |
| - Time slot list               |                                                 |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 0                                               |
| - Cell parameters ID           | 126                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 1                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 2                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 3                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 4                                               |
| - Cell parameters ID           | 126                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 5                                               |
| - Cell parameters ID           | 126                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 6                                               |
| - Cell parameters ID           | 126                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 7                                               |
| - Cell parameters ID           | 126                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 8                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 9                                               |

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| - Cell parameters ID       | 122                                             |
| - Timeslot Number          |                                                 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number          | 10                                              |
| - Cell parameters ID       | 122                                             |
| - Timeslot Number          |                                                 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number          | 11                                              |
| - Cell parameters ID       | 126                                             |
| - Timeslot Number          |                                                 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number          | 12                                              |
| - Cell parameters ID       | 126                                             |
| - Timeslot Number          |                                                 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number          | 13                                              |
| - Cell parameters ID       | 126                                             |
| - Timeslot Number          |                                                 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number          | 14                                              |
| - Cell parameters ID       | 126                                             |

## Contents of System Information Block type 5 for cell No.33 (1.28 Mcps TDD)

|                                |                                |
|--------------------------------|--------------------------------|
| <b>- TDD MBSFN information</b> |                                |
| - Time slot list               |                                |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 0                              |
| - Cell parameters ID           | 126                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 1                              |
| - Cell parameters ID           | 122                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 2                              |
| - Cell parameters ID           | 122                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 3                              |
| - Cell parameters ID           | 122                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 4                              |
| - Cell parameters ID           | 126                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 5                              |
| - Cell parameters ID           | 126                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 6                              |
| - Cell parameters ID           | 126                            |

## Contents of System Information Block type 11 for cell No.33 (FDD)

|                                                         |    |
|---------------------------------------------------------|----|
| <b>- Intra-frequency measurement system information</b> |    |
| ....                                                    |    |
| - New intra-frequency cells                             |    |
| - Intra-frequency cell id                               | 33 |

|                           |                                                                                                                                                                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info               | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.33 (FDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id | 34                                                                                                                                                                                                                                                                  |
| - Cell info               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 35                                                                                                                                                                                                                                                                  |
| - Cell info               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 36                                                                                                                                                                                                                                                                  |
| - Cell info               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (FDD)" in clause 6.1.4.4 |

#### Contents of System Information Block type 11 for cell No.33 (3.84 Mcps and 7.68 Mcps TDD)

|                                                         |                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                                    |
| ....                                                    |                                                                                                                                                                                                                                                                                    |
| - New intra-frequency cells                             | 33                                                                                                                                                                                                                                                                                 |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.33 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4   |
| - Cell info                                             | 34                                                                                                                                                                                                                                                                                 |
| - Intra-frequency cell id                               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info                                             | 35                                                                                                                                                                                                                                                                                 |
| - Intra-frequency cell id                               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info                                             | 36                                                                                                                                                                                                                                                                                 |
| - Intra-frequency cell id                               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info                                             |                                                                                                                                                                                                                                                                                    |

#### Contents of System Information Block type 11 for cell No.33 (1.28 Mcps TDD)

|                                                         |    |
|---------------------------------------------------------|----|
| <b>- Intra-frequency measurement system information</b> |    |
| ....                                                    |    |
| - New intra-frequency cells                             | 33 |
| - Intra-frequency cell id                               |    |



|                           |                                                                                                                                                                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Cell info               | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.33 (1.28 Mcps TDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id | 34                                                                                                                                                                                                                                                                            |
| - Cell info               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 35                                                                                                                                                                                                                                                                            |
| - Cell info               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id | 36                                                                                                                                                                                                                                                                            |
| - Cell info               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (1.28 Mcps TDD)" in clause 6.1.4.4 |

#### Cell No.34

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.34 are identical to those of cell No.31 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0010B |
|---------------|-------------------------------------|

#### Default settings for cell No.34 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 270                                        |

#### Default settings for cell No.34 (TDD)

|                              |                        |
|------------------------------|------------------------|
| Downlink input level         | Reference clause 6.1.6 |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description     |                        |
| - Primary CCPCH info         |                        |
| - Cell parameters ID         | 118                    |

#### Default settings for cell No.31 (3.84 Mcps TDD IMB)

|                              |                                                                           |
|------------------------------|---------------------------------------------------------------------------|
| Downlink input level         | Reference clause 6.1.6.1 "Reference Radio Conditions (3.84 Mcps TDD IMB)" |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2                                                    |
| Cell Channel Description     |                                                                           |
| - Primary CPICH info         |                                                                           |
| - Primary scrambling code    | 512                                                                       |

#### Contents of System Information Block type 5 for cell No.34 (FDD)

FFS

## Contents of System Information Block type 5 for cell No.34 (3.84 Mcps and 7.68 Mcps TDD)

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| <b>- TDD MBSFN information</b> |                                                 |
| - Time slot list               |                                                 |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 0                                               |
| - Cell parameters ID           | 118                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 1                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 2                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 3                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 4                                               |
| - Cell parameters ID           | 118                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 5                                               |
| - Cell parameters ID           | 118                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 6                                               |
| - Cell parameters ID           | 118                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 7                                               |
| - Cell parameters ID           | 118                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 8                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 9                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 10                                              |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 11                                              |
| - Cell parameters ID           | 118                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 12                                              |
| - Cell parameters ID           | 118                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 13                                              |
| - Cell parameters ID           | 118                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 14                                              |
| - Cell parameters ID           | 118                                             |

## Contents of System Information Block type 5 for cell No.34 (1.28 Mcps TDD)

|                                |                                |
|--------------------------------|--------------------------------|
| <b>- TDD MBSFN information</b> |                                |
| - Time slot list               |                                |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 0                              |
| - Cell parameters ID           | 118                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 1                              |
| - Cell parameters ID           | 122                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 2                              |
| - Cell parameters ID           | 122                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 3                              |
| - Cell parameters ID           | 122                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 4                              |
| - Cell parameters ID           | 118                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 5                              |
| - Cell parameters ID           | 118                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 6                              |
| - Cell parameters ID           | 118                            |

## Contents of System Information Block type 11 for cell No.34 (FDD)

|                                                         |                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                     |
| ....                                                    |                                                                                                                                                                                                                                                                     |
| - New intra-frequency cells                             |                                                                                                                                                                                                                                                                     |
| - Intra-frequency cell id                               | 34                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.34 (FDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id                               | 33                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id                               | 35                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id                               | 36                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (FDD)" in clause 6.1.4.4 |

## Contents of System Information Block type 11 for cell No.34 (3.84 Mcps and 7.68 Mcps TDD)

|                                                         |  |
|---------------------------------------------------------|--|
| <b>- Intra-frequency measurement system information</b> |  |
|---------------------------------------------------------|--|

|                             |                                                                                                                                                                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ....                        |                                                                                                                                                                                                                                                                                          |
| - New intra-frequency cells |                                                                                                                                                                                                                                                                                          |
| - Intra-frequency cell id   |                                                                                                                                                                                                                                                                                          |
| - Cell info                 | 34<br>Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.34 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id   | 33<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info                 | 35<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id   | 36<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info                 |                                                                                                                                                                                                                                                                                          |

#### Contents of System Information Block type 11 for cell No.34 (1.28 Mcps TDD)

|                                                         |                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                                     |
| ....                                                    |                                                                                                                                                                                                                                                                                     |
| - New intra-frequency cells                             |                                                                                                                                                                                                                                                                                     |
| - Intra-frequency cell id                               |                                                                                                                                                                                                                                                                                     |
| - Cell info                                             | 34<br>Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.34 (1.28 Mcps TDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id                               | 33<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info                                             | 35<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id                               | 36<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info                                             |                                                                                                                                                                                                                                                                                     |

#### Cell No.35

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.35 are identical to those of cell No.31 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0011B |
|---------------|-------------------------------------|

## Default settings for cell No.35 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 320                                        |

## Default settings for cell No.35 (TDD)

|                              |                        |
|------------------------------|------------------------|
| Downlink input level         | Reference clause 6.1.6 |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description     |                        |
| - Primary CCPCH info         |                        |
| - Cell parameters ID         | 110                    |

## Default settings for cell No.31 (3.84 Mcps TDD IMB)

|                              |                                                                            |
|------------------------------|----------------------------------------------------------------------------|
| Downlink input level         | Reference clause 6.1.6.1 " Reference Radio Conditions (3.84 Mcps TDD IMB)" |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2                                                     |
| Cell Channel Description     |                                                                            |
| - Primary CPICH info         |                                                                            |
| - Primary scrambling code    | 640                                                                        |

## Contents of System Information Block type 5 for cell No.35 (FDD)

FFS

## Contents of System Information Block type 5 for cell No.35 (3.84 Mcps and 7.68 Mcps TDD)

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| <b>- TDD MBSFN information</b> |                                                 |
| - Time slot list               |                                                 |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 0                                               |
| - Cell parameters ID           | 110                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 1                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 2                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 3                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 4                                               |
| - Cell parameters ID           | 110                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 5                                               |
| - Cell parameters ID           | 110                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 6                                               |
| - Cell parameters ID           | 110                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 7                                               |

|                            |                                                 |
|----------------------------|-------------------------------------------------|
| - Cell parameters ID       | 110                                             |
| - Timeslot Number          |                                                 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number          | 8                                               |
| - Cell parameters ID       | 122                                             |
| - Timeslot Number          |                                                 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number          | 9                                               |
| - Cell parameters ID       | 122                                             |
| - Timeslot Number          |                                                 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number          | 10                                              |
| - Cell parameters ID       | 122                                             |
| - Timeslot Number          |                                                 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number          | 11                                              |
| - Cell parameters ID       | 110                                             |
| - Timeslot Number          |                                                 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number          | 12                                              |
| - Cell parameters ID       | 110                                             |
| - Timeslot Number          |                                                 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number          | 13                                              |
| - Cell parameters ID       | 110                                             |
| - Timeslot Number          |                                                 |
| - CHOICE <i>TDD option</i> | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number          | 14                                              |
| - Cell parameters ID       | 110                                             |

## Contents of System Information Block type 5 for cell No.35 (1.28 Mcps TDD)

|                                |                                |
|--------------------------------|--------------------------------|
| <b>- TDD MBSFN information</b> |                                |
| - Time slot list               |                                |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 0                              |
| - Cell parameters ID           | 110                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 1                              |
| - Cell parameters ID           | 122                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 2                              |
| - Cell parameters ID           | 122                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 3                              |
| - Cell parameters ID           | 122                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 4                              |
| - Cell parameters ID           | 110                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 5                              |
| - Cell parameters ID           | 110                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 6                              |
| - Cell parameters ID           | 110                            |

## Contents of System Information Block type 11 for cell No.35 (FDD)

|                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b><br>.....<br>- New intra-frequency cells<br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info | 35<br>Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.35 (FDD)" in clause 6.1.4.4<br>33<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (FDD)" in clause 6.1.4.4<br>34<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (FDD)" in clause 6.1.4.4<br>36<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (FDD)" in clause 6.1.4.4 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Contents of System Information Block type 11 for cell No.35 (3.84 Mcps and 7.68 Mcps TDD)

|                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b><br>.....<br>- New intra-frequency cells<br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info<br><br>- Intra-frequency cell id<br>- Cell info | 35<br>Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.35 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4<br>33<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4<br>34<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4<br>36<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Contents of System Information Block type 11 for cell No.35 (1.28 Mcps TDD)

|                                                                                                 |  |
|-------------------------------------------------------------------------------------------------|--|
| <b>- Intra-frequency measurement system information</b><br>.....<br>- New intra-frequency cells |  |
|-------------------------------------------------------------------------------------------------|--|

|                                          |                                                                                                                                                                                                                                                                                     |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Intra-frequency cell id<br>- Cell info | 35<br>Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.35 (1.28 Mcps TDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id<br>- Cell info | 33<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id<br>- Cell info | 34<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id<br>- Cell info | 36<br>Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.36 (1.28 Mcps TDD)" in clause 6.1.4.4 |

## Cell No.36

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.36 are identical to those of cell No.31 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0100B |
|---------------|-------------------------------------|

## Default settings for cell No.36 (FDD)

|                                                                                                                                                              |                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>Uplink output power<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description<br>- Primary CPICH info<br>- Primary scrambling code | Reference clause 6 Parameter Set<br>Minimum supported by the UE's power class.<br>Reference clause 6 Parameter Set<br><br>370 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|

## Default settings for cell No.36 (TDD)

|                                                                                                                                  |                                                             |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Downlink input level<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description<br>- Primary CCPCH info<br>- Cell parameters ID | Reference clause 6.1.6<br>Reference clause 5.1.2<br><br>102 |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|

## Default settings for cell No.31 (3.84 Mcps TDD IMB)

|                                                                                                                                       |                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Downlink input level<br>PCCPCH/PCPICH carrier number<br>Cell Channel Description<br>- Primary CPICH info<br>- Primary scrambling code | Reference clause 6.1.6.1 "Reference Radio Conditions (3.84 Mcps TDD IMB)"<br>Reference clause 5.1.2<br><br>768 |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|

## Contents of System Information Block type 5 for cell No.36 (FDD)

FFS



## Contents of System Information Block type 5 for cell No.36 (3.84 Mcps and 7.68 Mcps TDD)

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| <b>- TDD MBSFN information</b> |                                                 |
| - Time slot list               |                                                 |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 0                                               |
| - Cell parameters ID           | 102                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 1                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 2                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 3                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 4                                               |
| - Cell parameters ID           | 102                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 5                                               |
| - Cell parameters ID           | 102                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 6                                               |
| - Cell parameters ID           | 102                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 7                                               |
| - Cell parameters ID           | 102                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 8                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 9                                               |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 10                                              |
| - Cell parameters ID           | 122                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 11                                              |
| - Cell parameters ID           | 102                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 12                                              |
| - Cell parameters ID           | 102                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 13                                              |
| - Cell parameters ID           | 102                                             |
| - Timeslot Number              |                                                 |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD or 7.68 Mcps TDD (as appropriate) |
| - Timeslot number              | 14                                              |
| - Cell parameters ID           | 102                                             |

## Contents of System Information Block type 5 for cell No.36 (1.28 Mcps TDD)

|                                |                                |
|--------------------------------|--------------------------------|
| <b>- TDD MBSFN information</b> |                                |
| - Time slot list               |                                |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 0                              |
| - Cell parameters ID           | 102                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 1                              |
| - Cell parameters ID           | 122                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 2                              |
| - Cell parameters ID           | 122                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 3                              |
| - Cell parameters ID           | 122                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 4                              |
| - Cell parameters ID           | 102                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 5                              |
| - Cell parameters ID           | 102                            |
| - Timeslot Number              |                                |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD (as appropriate) |
| - Timeslot number              | 6                              |
| - Cell parameters ID           | 102                            |

## Contents of System Information Block type 11 for cell No.36 (FDD)

|                                                         |                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                     |
| ....                                                    |                                                                                                                                                                                                                                                                     |
| - New intra-frequency cells                             |                                                                                                                                                                                                                                                                     |
| - Intra-frequency cell id                               | 36                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.36 (FDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id                               | 33                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id                               | 34                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id                               | 35                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (FDD)" in clause 6.1.4.4 |

## Contents of System Information Block type 11 for cell No.36 (3.84 Mcps and 7.68 Mcps TDD)

|                                                         |  |
|---------------------------------------------------------|--|
| <b>- Intra-frequency measurement system information</b> |  |
|---------------------------------------------------------|--|

|                             |                                                                                                                                                                                                                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ....                        |                                                                                                                                                                                                                                                                                    |
| - New intra-frequency cells | 36                                                                                                                                                                                                                                                                                 |
| - Intra-frequency cell id   | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.36 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4   |
| - Cell info                 | 33                                                                                                                                                                                                                                                                                 |
| - Intra-frequency cell id   | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info                 | 34                                                                                                                                                                                                                                                                                 |
| - Intra-frequency cell id   | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info                 | 35                                                                                                                                                                                                                                                                                 |
| - Intra-frequency cell id   | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info                 |                                                                                                                                                                                                                                                                                    |

#### Contents of System Information Block type 11 for cell No.36 (1.28 Mcps TDD)

|                                                         |                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                               |
| ....                                                    |                                                                                                                                                                                                                                                                               |
| - New intra-frequency cells                             | 36                                                                                                                                                                                                                                                                            |
| - Intra-frequency cell id                               | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.36 (1.28 Mcps TDD)" in clause 6.1.4.4   |
| - Cell info                                             | 33                                                                                                                                                                                                                                                                            |
| - Intra-frequency cell id                               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.33 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info                                             | 34                                                                                                                                                                                                                                                                            |
| - Intra-frequency cell id                               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.34 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info                                             | 35                                                                                                                                                                                                                                                                            |
| - Intra-frequency cell id                               | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.35 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Cell info                                             |                                                                                                                                                                                                                                                                               |

#### Cell No.37

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.37 are identical to those of cell No.31 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0101B |
|---------------|-------------------------------------|

## Default settings for cell No.37 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 420                                        |

## Default settings for cell No.37 (TDD)

|                              |                        |
|------------------------------|------------------------|
| Downlink input level         | Reference clause 6.1.6 |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description     |                        |
| - Primary CCPCH info         |                        |
| - Cell parameters ID         | 17                     |

## Default settings for cell No.31 (3.84 Mcps TDD IMB)

|                              |                                                                           |
|------------------------------|---------------------------------------------------------------------------|
| Downlink input level         | Reference clause 6.1.6.1 "Reference Radio Conditions (3.84 Mcps TDD IMB)" |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2                                                    |
| Cell Channel Description     |                                                                           |
| - Primary CPICH info         |                                                                           |
| - Primary scrambling code    | 896                                                                       |

## Contents of System Information Block type 5 for cell No.37 (FDD)

FFS

## Contents of System Information Block type 5 for cell No.37 (3.84 Mcps TDD)

|                                |                                                           |
|--------------------------------|-----------------------------------------------------------|
| <b>- TDD MBSFN information</b> |                                                           |
| - Time slot list               | (This list describes all Timeslots (0...14) in the frame) |
| - Timeslot Number              |                                                           |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD                                             |
| - Timeslot number              | 0                                                         |
| - Cell parameters ID           | 17                                                        |
| - Timeslot Number              | (Repeated for each Timeslot (1...14))                     |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD                                             |
| - Timeslot number              | (1...14)                                                  |
| - Cell parameters ID           | 5 (Repeated for each Timeslot (1...14))                   |

## Contents of System Information Block type 5 for cell No.37 (1.28 Mcps TDD)

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| <b>- TDD MBSFN information</b> |                                                          |
| - Time slot list               | (This list describes all Timeslots (0...6) in the frame) |
| - Timeslot Number              |                                                          |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD                                            |
| - Timeslot number              | 0                                                        |
| - Cell parameters ID           | 17                                                       |
| - Timeslot Number              | (Repeated for each Timeslot (1...6))                     |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD                                            |
| - Timeslot number              | (1...6)                                                  |
| - Cell parameters ID           | 5 (Repeated for each Timeslot (1...6))                   |

## Contents of System Information Block type 5 for cell No.37 (7.68 Mcps TDD)

|                                |                                                           |
|--------------------------------|-----------------------------------------------------------|
| <b>- TDD MBSFN information</b> |                                                           |
| - Time slot list               | (This list describes all Timeslots (0...14) in the frame) |
| - Timeslot Number              |                                                           |
| - CHOICE <i>TDD option</i>     | 7.68 Mcps TDD                                             |
| - Timeslot number              | 0                                                         |

|                            |                                         |
|----------------------------|-----------------------------------------|
| - Cell parameters ID       | 17                                      |
| - Timeslot Number          | (Repeated for each Timeslot (1...14))   |
| - CHOICE <i>TDD option</i> | 7.68 Mcps TDD                           |
| - Timeslot number          | (1...14)                                |
| - Cell parameters ID       | 5 (Repeated for each Timeslot (1...14)) |

## Contents of System Information Block type 11 for cell No.37 (FDD)

|                                                         |                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                     |
| ....                                                    |                                                                                                                                                                                                                                                                     |
| - New intra-frequency cells                             |                                                                                                                                                                                                                                                                     |
| - Intra-frequency cell id                               | 37                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.37 (FDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id                               | 31                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (FDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id                               | 32                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4                                                                                                                                                    |
| - Intra-frequency cell id                               | 38                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (FDD)" in clause 6.1.4.4 |

## Contents of System Information Block type 11 for cell No.37 (3.84 Mcps and 7.68 Mcps TDD)

|                                                         |                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                                    |
| ....                                                    |                                                                                                                                                                                                                                                                                    |
| - New intra-frequency cells                             |                                                                                                                                                                                                                                                                                    |
| - Intra-frequency cell id                               | 37                                                                                                                                                                                                                                                                                 |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.37 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id                               | 31                                                                                                                                                                                                                                                                                 |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id                               | 32                                                                                                                                                                                                                                                                                 |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4                                                                                                                                                                   |
| - Intra-frequency cell id                               | 38                                                                                                                                                                                                                                                                                 |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |

## Contents of System Information Block type 11 for cell No.37 (1.28 Mcps TDD)

|                                                  |                                                                                                                                                                                                                                                                               |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Intra-frequency measurement system information |                                                                                                                                                                                                                                                                               |
| ....                                             |                                                                                                                                                                                                                                                                               |
| - New intra-frequency cells                      |                                                                                                                                                                                                                                                                               |
| - Intra-frequency cell id                        | 37                                                                                                                                                                                                                                                                            |
| - Cell info                                      | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.37 (1.28 Mcps TDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id                        | 31                                                                                                                                                                                                                                                                            |
| - Cell info                                      | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (1.28 Mcps TDD)" in clause 6.1.4.4 |
| - Intra-frequency cell id                        | 32                                                                                                                                                                                                                                                                            |
| - Cell info                                      | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4                                                                                                                                                              |
| - Intra-frequency cell id                        | 38                                                                                                                                                                                                                                                                            |
| - Cell info                                      | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.38 (1.28 Mcps TDD)" in clause 6.1.4.4 |

#### Cell No.38

The contents of SYSTEM INFORMATION BLOCK TYPE 3, 5 and 11 messages for cell No.38 are identical to those of cell No.31 with the following exceptions.

|               |                                     |
|---------------|-------------------------------------|
| Cell identity | 0000 0000 0000 0000 0000 0010 0110B |
|---------------|-------------------------------------|

#### Default settings for cell No.38 (FDD)

|                              |                                            |
|------------------------------|--------------------------------------------|
| Downlink input level         | Reference clause 6.10 "Parameter Set"      |
| Uplink output power          | Minimum supported by the UE's power class. |
| PCCPCH/PCPICH carrier number | Reference clause 6.10 "Parameter Set"      |
| Cell Channel Description     |                                            |
| - Primary CPICH info         |                                            |
| - Primary scrambling code    | 470                                        |

#### Default settings for cell No.38 (TDD)

|                              |                        |
|------------------------------|------------------------|
| Downlink input level         | Reference clause 6.1.6 |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2 |
| Cell Channel Description     |                        |
| - Primary CCPCH info         |                        |
| - Cell parameters ID         | 25                     |

#### Default settings for cell No.31 (3.84 Mcps TDD IMB)

|                              |                                                                           |
|------------------------------|---------------------------------------------------------------------------|
| Downlink input level         | Reference clause 6.1.6.1 "Reference Radio Conditions (3.84 Mcps TDD IMB)" |
| PCCPCH/PCPICH carrier number | Reference clause 5.1.2                                                    |
| Cell Channel Description     |                                                                           |
| - Primary CPICH info         |                                                                           |
| - Primary scrambling code    | 0                                                                         |

#### Contents of System Information Block type 5 for cell No.38 (FDD)

FFS

## Contents of System Information Block type 5 for cell No.38 (3.84 Mcps TDD)

|                                |                                                           |
|--------------------------------|-----------------------------------------------------------|
| <b>- TDD MBSFN information</b> |                                                           |
| - Time slot list               | (This list describes all Timeslots (0...14) in the frame) |
| - Timeslot Number              |                                                           |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD                                             |
| - Timeslot number              | 0                                                         |
| - Cell parameters ID           | 25                                                        |
| - Timeslot Number              | (Repeated for each Timeslot (1...14))                     |
| - CHOICE <i>TDD option</i>     | 3.84 Mcps TDD                                             |
| - Timeslot number              | (1...14)                                                  |
| - Cell parameters ID           | 5 (Repeated for each Timeslot (1...14))                   |

## Contents of System Information Block type 5 for cell No.38 (1.28 Mcps TDD)

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| <b>- TDD MBSFN information</b> |                                                          |
| - Time slot list               | (This list describes all Timeslots (0...6) in the frame) |
| - Timeslot Number              |                                                          |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD                                            |
| - Timeslot number              | 0                                                        |
| - Cell parameters ID           | 25                                                       |
| - Timeslot Number              | (Repeated for each Timeslot (1...6))                     |
| - CHOICE <i>TDD option</i>     | 1.28 Mcps TDD                                            |
| - Timeslot number              | (1...6)                                                  |
| - Cell parameters ID           | 5 (Repeated for each Timeslot (1...6))                   |

## Contents of System Information Block type 5 for cell No.38 (7.68 Mcps TDD)

|                                |                                                           |
|--------------------------------|-----------------------------------------------------------|
| <b>- TDD MBSFN information</b> |                                                           |
| - Time slot list               | (This list describes all Timeslots (0...14) in the frame) |
| - Timeslot Number              |                                                           |
| - CHOICE <i>TDD option</i>     | 7.68 Mcps TDD                                             |
| - Timeslot number              | 0                                                         |
| - Cell parameters ID           | 25                                                        |
| - Timeslot Number              | (Repeated for each Timeslot (1...14))                     |
| - CHOICE <i>TDD option</i>     | 7.68 Mcps TDD                                             |
| - Timeslot number              | (1...14)                                                  |
| - Cell parameters ID           | 5 (Repeated for each Timeslot (1...14))                   |

## Contents of System Information Block type 11 for cell No.38 (FDD)

|                                                         |                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                     |
| ....                                                    |                                                                                                                                                                                                                                                                     |
| - New intra-frequency cells                             |                                                                                                                                                                                                                                                                     |
| - Intra-frequency cell id                               | 38                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.38 (FDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id                               | 31                                                                                                                                                                                                                                                                  |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (FDD)" in clause 6.1.4.4 |

## Contents of System Information Block type 11 for cell No.38 (3.84 Mcps and 7.68 Mcps TDD)

|                                                         |                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                                    |
| ....                                                    |                                                                                                                                                                                                                                                                                    |
| - New intra-frequency cells                             |                                                                                                                                                                                                                                                                                    |
| - Intra-frequency cell id                               | 38                                                                                                                                                                                                                                                                                 |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.38 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id                               | 31                                                                                                                                                                                                                                                                                 |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (3.84/7.68 Mcps TDD)" in clause 6.1.4.4 |

Contents of System Information Block type 11 for cell No.38 (1.28 Mcps TDD)

|                                                         |                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>- Intra-frequency measurement system information</b> |                                                                                                                                                                                                                                                                               |
| ....                                                    |                                                                                                                                                                                                                                                                               |
| - New intra-frequency cells                             |                                                                                                                                                                                                                                                                               |
| - Intra-frequency cell id                               | 38                                                                                                                                                                                                                                                                            |
| - Cell info                                             | Same content as specified for Intra-frequency cell id=31 (serving cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell parameters ID shall be according to clause titled "Default settings for cell No.38 (1.28 Mcps TDD)" in clause 6.1.4.4   |
| - Intra-frequency cell id                               | 31                                                                                                                                                                                                                                                                            |
| - Cell info                                             | Same content as specified for intra-frequency cell id=32 (neighbour cell) in SIB11 for Cell 31 in clause 6.1.4.4 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.31 (1.28 Mcps TDD)" in clause 6.1.4.4 |

## 6.1.5 Reference Radio Conditions (FDD)

The following transmission parameters shall be used unless otherwise stated in the description of the individual test case.

Table 6.1.3 are the default settings for a non-suitable cell which is configured and always present whereas table 6.1.4 is for a cell that is switched off. Cells configured according to table 6.1.3 are for test cases in which it is necessary to make a cell unsuitable, and then subsequently make it suitable. This could be achieved by switching the cell off and then reconfiguration as in table 6.1.4, but this takes a lot of time to do.

**Table 6.1.1: Default settings for a serving cell in a single cell environment**

| Parameter                                                                                                                                                                 | Unit         | Cell 1/Cell 21           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------|
| Cell type                                                                                                                                                                 |              | Serving cell             |
| UTRA RF Channel Number (Note 3)                                                                                                                                           |              | Mid Range Test Frequency |
| Qqualmin                                                                                                                                                                  | dB           | -24                      |
| Qrxlevmin                                                                                                                                                                 | dBm          | -79                      |
| UE_TXPWR_MAX_RACH                                                                                                                                                         | dBm          | 21                       |
| CPICH Ec (see notes 1 and 2)                                                                                                                                              | dBm/3.84 MHz | -60                      |
| NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS. |              |                          |
| NOTE 2: The cell fulfils 3GPP TS 25.304 [36], clause 5.2.3.1.2 and 3GPP TS 25.133 [30], clause 8.1.2.2.1.                                                                 |              |                          |
| NOTE 3: The Test Frequencies are selected from the Tables in section 5.1.1 for the band under test.                                                                       |              |                          |



**Table 6.1.2: Default settings for a serving cell and a suitable neighbour cell in a multi-cell environment**

| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit         | Cell 1/Cell 21           | Cell 2/Cell 22                          | Cell 4/Cell 24                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------|-----------------------------------------|-----------------------------------------|
| Cell type                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              | Serving cell             | Suitable neighbour intra-frequency cell | Suitable neighbour inter-frequency cell |
| UTRA RF Channel Number (Note 3)                                                                                                                                                                                                                                                                                                                                                                                                                                    |              | Mid Range Test Frequency | Mid Range Test Frequency                | High Range Test Frequency               |
| Qqualmin                                                                                                                                                                                                                                                                                                                                                                                                                                                           | dB           | -24                      | -24                                     |                                         |
| Qrxlevmin                                                                                                                                                                                                                                                                                                                                                                                                                                                          | dBm          | -79                      | -79                                     |                                         |
| UE_TXPWR_MAX_RACH                                                                                                                                                                                                                                                                                                                                                                                                                                                  | dBm          | 21                       | 21                                      |                                         |
| CPICH_Ec (see notes 1 and 2)                                                                                                                                                                                                                                                                                                                                                                                                                                       | dBm/3.84 MHz | -60                      | -70                                     |                                         |
| NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS.                                                                                                                                                                                                                                                                                          |              |                          |                                         |                                         |
| NOTE 2: Both cells fulfil 3GPP TS 25.304 [36], clause 5.2.3.1.2 and 3GPP TS 25.133 [30], clause 8.1.2.2.1.                                                                                                                                                                                                                                                                                                                                                         |              |                          |                                         |                                         |
| NOTE 3: The Test Frequencies are selected from the Tables in section 5.1.1 for the band(s) under test. For the test frequencies for low and high ranges for serving cell, the mid range is used for suitable neighbour of inter-frequency cell in SIB11. For Band VI the Low Range Test Frequencies are used for Cell 1 and Cell 2 because of the small bandwidth available. For FDD interband testing the Test Frequencies will be selected from different Bands. |              |                          |                                         |                                         |

**Table 6.1.3: Default settings for a non-suitable cell**

| Parameter                                                                                                                                                                 | Unit         | Level |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------|
| Qqualmin                                                                                                                                                                  | dB           | -24   |
| Qrxlevmin                                                                                                                                                                 | dBm          | -79   |
| UE_TXPWR_MAX_RACH                                                                                                                                                         | dBm          | 21    |
| CPICH_Ec                                                                                                                                                                  | dBm/3.84 MHz | -90   |
| NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS. |              |       |
| NOTE 2: The cell is not suitable according to 3GPP TS 25.304 [36], clause 5.2.3.1.2.                                                                                      |              |       |

**Table 6.1.4: Default settings for a non-suitable "Off" cell**

| Parameter                                                                                                                                                                 | Unit         | Level  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|
| Qqualmin                                                                                                                                                                  | dB           | -24    |
| Qrxlevmin                                                                                                                                                                 | dBm          | -79    |
| UE_TXPWR_MAX_RACH                                                                                                                                                         | dBm          | 21     |
| CPICH_Ec                                                                                                                                                                  | dBm/3.84 MHz | ≤ -122 |
| NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS. |              |        |
| NOTE 2: The cell is not suitable according to 3GPP TS 25.304 [36], clause 5.2.3.1.2.                                                                                      |              |        |

**Table 6.1.5: Default power levels of physical channels relative to CPICH\_Ec**

| Parameter                                                                            | Unit | Level Idle mode | Level Connected mode | Version |
|--------------------------------------------------------------------------------------|------|-----------------|----------------------|---------|
| HS-SCCH_Ec                                                                           | dB   | +3              |                      | Rel-5   |
| HS-PDSCH_Ec                                                                          | dB   | +7              |                      | Rel-5   |
| DPCH_Ec                                                                              | dB   | (see note)      | See table 6.1.6      |         |
| PCCPCH_Ec                                                                            | dB   | -2              |                      |         |
| SCCPCH_Ec                                                                            | dB   | -2              |                      |         |
| AICH_Ec                                                                              | dB   | -5              |                      |         |
| SCH_Ec                                                                               | dB   | -5              |                      |         |
| PICH_Ec                                                                              | dB   | -5              |                      |         |
| NOTE: This shall be less than -122 dBm to ensure the channel is considered as "off". |      |                 |                      |         |

**Table 6.1.6: Default power levels of DPCH\_Ec relative to CPICH\_Ec**

| Data transmission rate | Level |
|------------------------|-------|
| 12.2 kbps              | -5    |
| 64 kbps                | -2    |

|                         |    |
|-------------------------|----|
| 64 kbps CS + 64 kbps PS | 0  |
| 144 kbps                | +1 |
| 384 kbps                | +5 |

### 6.1.5.1 HARQ Transmission Parameters (FDD)

The following HARQ transmission parameters shall be used for test cases in 34.123-1 configuring HS-DSCH channels.

**Table 6.1.5.1 : HARQ transmission parameters without MIMO**

| Parameter                                            | QPSK modulation   | 16QAM modulation  | 64QAM modulation  |
|------------------------------------------------------|-------------------|-------------------|-------------------|
| Redundancy and constellation version coding sequence | {0,2,5,6,1,3,7,4} | {6,2,1,5,3,4,7,0} | {6,2,1,5,3,4,7,0} |
| Maximum number of HARQ transmission                  | 8                 | 8                 | 8                 |

**Table 6.1.5.1a : HARQ transmission parameters with MIMO**

| Parameter                                            | QPSK modulation   | 16QAM modulation  | 64QAM modulation  |
|------------------------------------------------------|-------------------|-------------------|-------------------|
| Redundancy and constellation version coding sequence | {0,3,2,1,3,2,1,3} | {0,3,2,1,3,2,1,3} | {0,3,2,1,3,2,1,3} |
| Maximum number of HARQ transmission                  | 8                 | 8                 | 8                 |

### 6.1.5.2 Inter-band testing (FDD)

FDD inter-band testing only applies for UEs supporting multiple FDD bands simultaneously. In this case the UE can perform cell (re-)selection or inter-frequency mobility between a primary band and a secondary band. The primary and secondary FDD bands are selected according to PIXIT parameters. If a UE supports more than 2 FDD frequency bands, then the test may be executed for various band combinations.

### 6.1.6 Reference Radio Conditions (TDD)

The following transmission parameters shall be used for TDD modes other than 3.84 Mcps TDD IMB unless otherwise stated in the description of the individual test case.

**Table 6.1.6a: Default settings for a serving cell in a single cell environment**

| Parameter                                                                                                                                                                            | Unit | Cell 1/Cell 21/Cell 31   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------|
| Cell type                                                                                                                                                                            |      | Serving cell             |
| UTRA RF Channel Number                                                                                                                                                               |      | Mid Range Test Frequency |
| Qrxlevmin                                                                                                                                                                            | dBm  | -81                      |
| UE_TXPWR_MAX_RACH                                                                                                                                                                    | dBm  | 21                       |
| PCCPCH RSCP                                                                                                                                                                          | dBm  | -60                      |
| NOTE: The cell fulfils 3GPP TS 25.304 [36], clause 5.2.3.1.2 and 3GPP TS 25.123 [37].<br>The Test Frequencies are selected from the Tables in section 5.1.2 for the band under test. |      |                          |

**Table 6.1.7: Default settings for a serving cell and a suitable neighbour cell in a multi-cell environment**

| Parameter                                                                                                                                                                             | Unit | Cell 1/Cell 21/Cell 31   | Cell 2/Cell 22                          | Cell 4/Cell 24/Cell 32                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------|-----------------------------------------|-----------------------------------------|
| Cell type                                                                                                                                                                             |      | Serving cell             | Suitable neighbour intra-frequency cell | Suitable neighbour inter-frequency cell |
| UTRA RF Channel Number                                                                                                                                                                |      | Mid Range Test Frequency | Mid Range Test Frequency                | High Range Test Frequency               |
| Qrxlevmin                                                                                                                                                                             | dBm  | -81                      | -81                                     | -81                                     |
| UE_TXPWR_MAX_RACH                                                                                                                                                                     | dBm  | 21                       | 21                                      | 21                                      |
| PCCPCH RSCP                                                                                                                                                                           | dBm  | -60                      | -70                                     | -70                                     |
| NOTE: Both cells fulfil 3GPP TS 25.304 [36], clause 5.2.3.1.2 and 3GPP TS 25.123 [37].<br>The Test Frequencies are selected from the Tables in section 5.1.2 for the band under test. |      |                          |                                         |                                         |

**Table 6.1.8: Default settings for a non-suitable cell**

| Parameter                                                                          | Unit | Level |
|------------------------------------------------------------------------------------|------|-------|
| Qrxlevmin                                                                          | dBm  | -81   |
| UE_TXPWR_MAX_RACH                                                                  | dBm  | 21    |
| PCCPCH_RSCP                                                                        | dBm  | -91   |
| NOTE: The cell is not suitable according to 3GPP TS 25.304 [36], clause 5.2.3.1.2. |      |       |

**Table 6.1.9: Default settings for a non-suitable "Off" cell**

| Parameter                                                                          | Unit | Level  |
|------------------------------------------------------------------------------------|------|--------|
| Qrxlevmin                                                                          | dBm  | -81    |
| UE_TXPWR_MAX_RACH                                                                  | dBm  | 21     |
| PCCPCH_RSCP                                                                        | dBm  | ≤ -110 |
| NOTE: The cell is not suitable according to 3GPP TS 25.304 [36], clause 5.2.3.1.2. |      |        |

**Table 6.1.10: Default power levels of physical channels relative to P-CCPCH**

| Parameter  | Unit | Level<br>Idle mode | Level<br>Connected mode |
|------------|------|--------------------|-------------------------|
| SCCPCH_Ec  | dB   | -2                 |                         |
| FPACH_Ec   | dB   | -5                 |                         |
| PICH_Ec    | dB   | -5                 |                         |
| DPCH_Ec    | dB   | 0                  |                         |
| HS-SCCH_Ec | dB   | 0                  |                         |
| E-AGCH_Ec  | dB   | -2                 |                         |
| E-HICH     | dB   | -2                 |                         |

#### 6.1.6.1 Reference Radio Conditions (3.84 Mcps TDD IMB)

The following transmission parameters shall be used unless otherwise stated in the description of the individual test case.

Table 6.1.6.3 gives the default settings for a non-suitable cell which is configured and always present whereas table 6.1.6.4 is for a cell that is switched off. Cells configured according to table 6.1.6.3 are for test cases in which it is necessary to make a cell unsuitable, and then subsequently make it suitable. This could be achieved by switching the cell off and then reconfiguring as in table 6.1.6.4, but this takes a lot of time to do.

**Table 6.1.6.1: Default settings for a serving cell in a single cell environment**

| Parameter                                                                                                                                                                 | Unit         | Cell 31                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------|
| Cell type                                                                                                                                                                 |              | Serving cell             |
| UTRA RF Channel Number (Note 2)                                                                                                                                           |              | Mid Range Test Frequency |
| Qqualmin                                                                                                                                                                  | dB           | -24                      |
| Qrxlevmin                                                                                                                                                                 | dBm          | -79                      |
| UE_TXPWR_MAX_RACH                                                                                                                                                         | dBm          | 21                       |
| P-CPICH Ec (Note 1)                                                                                                                                                       | dBm/3.84 MHz | -60                      |
| T-CPICH Ec (Note 1)                                                                                                                                                       | dBm/3.84 MHz | -50.5                    |
| NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS. |              |                          |
| NOTE 2: The Test Frequencies are selected from the Tables in section 5.1.2 for the band under test.                                                                       |              |                          |

**Table 6.1.6.2: Default settings for a serving cell and a suitable neighbour cell in a multi-cell environment**

| Parameter | Unit | Cell 31      | Cell 33                                 |
|-----------|------|--------------|-----------------------------------------|
| Cell type |      | Serving cell | Suitable neighbour inter-frequency cell |

| UTRA RF Channel Number                                                                                                                                                    |              | Mid Range Test Frequency | Mid Range Test Frequency |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------|--------------------------|
| Qqualmin                                                                                                                                                                  | dB           | -24                      | -24                      |
| Qrxlevmin                                                                                                                                                                 | dBm          | -79                      | -79                      |
| UE_TXPWR_MAX_RACH                                                                                                                                                         | dBm          | 21                       | 21                       |
| P-CPICH Ec (Note 1)                                                                                                                                                       | dBm/3.84 MHz | -60                      | -70                      |
| T-CPICH Ec (Note 1)                                                                                                                                                       | dBm/3.84 MHz | -50.5                    | -60.5                    |
| NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS. |              |                          |                          |

**Table 6.1.6.3: Default settings for a non-suitable cell**

| Parameter                                                                                                                                                                 | Unit         | Level |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------|
| Qqualmin                                                                                                                                                                  | dB           | -24   |
| Qrxlevmin                                                                                                                                                                 | dBm          | -79   |
| UE_TXPWR_MAX_RACH                                                                                                                                                         | dBm          | 21    |
| P-CPICH Ec (Note 1)                                                                                                                                                       | dBm/3.84 MHz | -90   |
| T-CPICH Ec (Note 1)                                                                                                                                                       | dBm/3.84 MHz | -80.5 |
| NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS. |              |       |

**Table 6.1.6.4: Default settings for a non-suitable "Off" cell**

| Parameter                                                                                                                                                                 | Unit         | Level         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|
| Qqualmin                                                                                                                                                                  | dB           | -24           |
| Qrxlevmin                                                                                                                                                                 | dBm          | -79           |
| P-CPICH_Ec (Note 1)                                                                                                                                                       | dBm/3.84 MHz | $\leq -122$   |
| T-CPICH Ec (Note 1)                                                                                                                                                       | dBm/3.84 MHz | $\leq -112.5$ |
| NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS. |              |               |

**Table 6.1.6.5: Default power levels of physical channels relative to P-CPICH\_Ec**

| Parameter                                                                              | Unit | Level |
|----------------------------------------------------------------------------------------|------|-------|
| PCCPCH_Ec                                                                              | dB   | -2    |
| SCCPCH_Ec (Note 2)                                                                     | dB   | -14   |
| SCCPCH Type 2_Ec                                                                       | dB   | -2.57 |
| SCH_Ec                                                                                 | dB   | -5    |
| T-CPICH                                                                                | dB   | -2.22 |
| MICH                                                                                   | dB   | -14   |
| NOTE 1: Relative power levels are stated per code.                                     |      |       |
| NOTE 2: In 3GPP TS 25.221[28], clause 5.8.2.4, SCCPCH is referred to as SCCPCH Type 1. |      |       |

## 6.1.7 Reference Radio Conditions (GSM)

The following transmission parameters shall be used unless otherwise stated in the description of the individual test case.

**Table 6.1.10: Default settings for a serving cell and a suitable neighbour cell in a multi-cell environment**

| Parameter  | Unit | Cell 9                                         | Cell 10                                        |
|------------|------|------------------------------------------------|------------------------------------------------|
| Cell type  |      | Serving cell                                   | Suitable neighbour cell                        |
| BCCH ARFCN |      | As defined in the initial conditions in clause | As defined in the initial conditions in clause |

|                                                                                                        |     |                                                                            |                                                                      |
|--------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------|----------------------------------------------------------------------|
|                                                                                                        |     | 26.6.5.1 of TS 51.010-1 [31] for cell A and the GSM band under test.       | 26.6.5.1 of TS 51.010-1 [31] for cell B and the GSM band under test. |
| Base transceiver Station Identity Code (BSIC)                                                          |     | BSIC1                                                                      | BSIC2                                                                |
| Qrxlevmin                                                                                              | dBm | -81                                                                        | -81                                                                  |
| MS_TXPWR_MAX_CCH                                                                                       | dBm | According to maximum output power for the power class of the MS under test |                                                                      |
| RF level                                                                                               | dBm | -48                                                                        | -54                                                                  |
| NOTE: Both cells fulfil 3GPP TS 25.304 [36], clause 5.2.6.1.4 and 3GPP TS 25.133 [37], clause 8.1.2.5. |     |                                                                            |                                                                      |

**Table 6.1.11: Default settings for a non-suitable cell**

| Parameter                                                                         | Unit | Level                                                                      |
|-----------------------------------------------------------------------------------|------|----------------------------------------------------------------------------|
| Qrxlevmin                                                                         | dBm  | -81                                                                        |
| MS_TXPWR_MAX_CCH                                                                  | dBm  | According to maximum output power for the power class of the MS under test |
| RF level                                                                          | dBm  | -90                                                                        |
| NOTE: The cell is not suitable according to 3GPP TS 25.304 [36], clause 5.2.6.1.4 |      |                                                                            |

## 6.1.8 Reference Radio Conditions (WLAN AP)

The same transmission parameters as in 36.508[45] clause 4.4.8 shall be used unless otherwise stated in the description of the individual test case.

## 6.2 Number of neighbour cells

The options for the number of neighbour cells (i.e. the total number of active cells in the simulated network) are given below. See clause 6.1 for cell configurations.

### 6.2.1 Basic Network

| Number of Cells | Use of Network Configuration                                                                                                                       |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1               | Basic UE registration; RRC Connection Establishment and Release; operation of dedicated channels in non-handover modes; general RF and EMC testing |

### 6.2.2 Soft Handover Network (FDD)

| Number of Cells | Use of Network Configuration/Constraints                                                                                                                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2               | Can be used in place of basic network, plus offering operation of dedicated channels in 2 way soft handover or in 2 way SSDT (R99 and Rel-4 only) handover for RF or signalling tests; simple cell reselection tests |

### 6.2.3 Hard Handover Network

| Number of Cells | Use of Network Configuration                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------|
| 2               | Can be used in place of basic network, plus offering operation in 2 cell hard handover (inter-frequency) |

### 6.2.4 'Roaming' Network

| Number of Cells | Use of Network Configuration                                                                                                                                                                                                                             |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6               | This configuration is intended to provide the capability for extensive cell selection and reselection testing, as defined under Idle Mode Testing. The maximum number of separate RF test channels is 4 in order to limit the test equipment complexity. |

## 6.3 Cell/BS codes etc

See clause 6.1.

## 6.4 Routing/location area

See clause 6.1.

## 6.5 Network options settings

See clause 6.1.

## 6.6 Power control mode

### 6.6.1 Downlink Power Control

#### 6.6.1.1 Outer Loop Power Control

This is used to set the SIR requirements from the given BER/BLER requirements for the dedicated channel - the reference configuration is for the BER/BLER and SIR requirements to be fixed, i.e. Outer Loop Power Control is disabled.

#### 6.6.1.2 Inner Loop Power Control

The inner loop power control adjusts the power of the dedicated channel to meet the SIR requirements. The reference condition is for the Inner Loop Power Control to be disabled.

### 6.6.2 Uplink Power Control

#### 6.6.2.1 Outer Loop Power Control

This is used to set the SIR requirements from the given BER/BLER requirements for the dedicated channel - the reference configuration is for the BER/BLER and SIR requirements to be fixed, i.e. Outer Loop Power Control is disabled.

#### 6.6.2.2 Inner Loop Power Control (FDD)

The inner loop power control adjusts the power of the dedicated channel to meet the SIR requirements.

## 6.7 Tx Diversity modes

The reference settings for Tx Diversity Mode shall be:

### 6.7.1 Non-Diverse Operation

DL Transmit Diversity shall be disabled on all cells in the simulated network.

### 6.7.2 Diverse Operation

#### 6.7.2.1 Diverse Operation (FDD mode)

The diversity options applied to the DL channels shall be as below for all cells in the simulated network.

| Channel | Open loop mode |      | Closed loop Mode |
|---------|----------------|------|------------------|
|         | TSTD           | STTD |                  |
| P-CCPCH | -              | X    | -                |
| SCH     | X              | -    | -                |
| S-CCPCH | -              | X    | -                |
| DPCH    | -              | X    | -                |
| PICH    | -              | X    | -                |
| AICH    | -              | X    | -                |

#### 6.7.2.2 Diverse Operation (TDD mode)

The diversity options applied to the DL channels shall be as below for all cells in the simulated network.

#### 6.7.2.2.1 3.84 Mcps option

**Table 6.7.1: Application of Tx diversity schemes on downlink physical channel types in 3.84 Mcps TDD "X" - can be applied, "-" - must not be applied**

| Physical channel type | Open loop TxDiversity |                 | Closed loop TxDiversity |
|-----------------------|-----------------------|-----------------|-------------------------|
|                       | TSTD                  | SCTD (see note) |                         |
| P-CCPCH               | -                     | X               | -                       |
| S-CCPCH               | --                    | X               | --                      |
| SCH                   | X                     | -               | -                       |
| DPCH                  | -                     | -               | X                       |
| PDSCH                 | -                     | X               | X                       |
| PICH                  | -                     | X               | -                       |

NOTE: SCTD may only be applied to physical channels when they are allocated to beacon locations.

#### 6.7.2.2.2 1.28 Mcps option

**Table 6.7.2: Application of Tx diversity schemes on downlink physical channel types in 1.28 Mcps TDD "X" - can be applied, "-" - must not be applied**

| Physical channel type | Open loop TxDiversity |                 | Closed loop TxDiversity |
|-----------------------|-----------------------|-----------------|-------------------------|
|                       | TSTD                  | SCTD (see note) |                         |
| P-CCPCH               | X                     | X               | -                       |
| S-CCPCH               | X                     | X               | -                       |
| DwPCH                 | X                     | -               | -                       |
| DPCH                  | X                     | -               | X                       |
| PDSCH                 | X                     | X               | X                       |
| PICH                  | X                     | X               | -                       |

NOTE: SCTD may only be applied to physical channels when they are allocated to beacon locations.

#### 6.7.2.2.1 7.68 Mcps option

**Table 6.7.1: Application of Tx diversity schemes on downlink physical channel types in 7.68 Mcps TDD "X" - can be applied, "-" - must not be applied**

| Physical channel type | Open loop TxDiversity |                 | Closed loop TxDiversity |
|-----------------------|-----------------------|-----------------|-------------------------|
|                       | TSTD                  | SCTD (see note) |                         |
| P-CCPCH               | -                     | X               | -                       |
| S-CCPCH               | --                    | X               | --                      |
| SCH                   | X                     | -               | -                       |
| DPCH                  | -                     | -               | X                       |
| PDSCH                 | -                     | X               | X                       |
| PICH                  | -                     | X               | -                       |

NOTE: SCTD may only be applied to physical channels when they are allocated to beacon locations.

## 6.8 Compressed mode parameters

In this clause, Parameters for reference compressed mode patterns are defined which are used in signalling test cases such as inter frequency FDD measurement, inter frequency TDD measurement and inter RAT measurement in 3GPP TS 34.123-1 [1]. These parameters are defined in 3GPP TS 25.133 [30] for measurement performance tests.

Depending on UE capability, there are four methods constructed of three types using of compressed mode such as UL only, DL only and both UL and DL, and using without application of compressed for the above measurement purposes. As test requirement is the same even if the test methods are different, ICS/IXIT statement is applied to the test cases so that the test procedure and specific message contents specified in 3GPP TS 34.123-1 [1] can be distinguished.

### 6.8.1 Single compressed mode pattern

Configuration parameters in single compressed mode pattern for one type of measurement objects are described in the following clauses.

### 6.8.1.1 Inter Frequency FDD measurement

The configuration parameters for an inter frequency FDD measurement is shown in table 6.8.1.

**Table 6.8.1: Compressed mode parameters (Inter Frequency FDD measurement)**

| Parameter                                        | Value                                     | Note                                                                               |
|--------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|
| TGSN (Transmission Gap Starting Slot Number)     | 4                                         |                                                                                    |
| TGL1 (Transmission Gap Length 1)                 | 7                                         |                                                                                    |
| TGL2 (Transmission Gap Length 2)                 | -                                         | Only one gap in use.                                                               |
| TGD (Transmission Gap Distance)                  | undefined                                 |                                                                                    |
| TGPL1 (Transmission Gap Pattern Length)          | 3                                         |                                                                                    |
| TGPL2 (Transmission Gap Pattern Length)          | -                                         | R99 and Rel-4:<br>Only one pattern in use.<br>Rel-5 and onwards:<br>Not applicable |
| TGCFN (Transmission Gap Connection Frame Number) | (Current CFN + (256 - TTI/10msec))mod 256 |                                                                                    |
| UL/DL compressed mode selection                  | DL, UL or DL & UL                         | 3 configurations possible.<br>DL, UL or both DL and UL                             |
| UL compressed mode method                        | SF/2                                      |                                                                                    |
| DL compressed mode method                        | SF/2                                      |                                                                                    |
| Scrambling code change                           | No                                        |                                                                                    |
| RPP (Recovery period power control mode)         | 0                                         |                                                                                    |
| ITP (Initial transmission power control mode)    | 0                                         |                                                                                    |

### 6.8.1.2 Inter Frequency TDD measurement

The configuration parameters for an inter frequency TDD measurement is shown in table 6.8.2.

**Table 6.8.2: Compressed mode parameters (Inter Frequency TDD measurement)**

| Parameter                                        | Value                                     | Note                                                                               |
|--------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|
| TGSN (Transmission Gap Starting Slot Number)     | 10                                        |                                                                                    |
| TGL1 (Transmission Gap Length 1)                 | 10                                        |                                                                                    |
| TGL2 (Transmission Gap Length 2)                 | -                                         | Only one gap in use.                                                               |
| TGD (Transmission Gap Distance)                  | undefined                                 |                                                                                    |
| TGPL1 (Transmission Gap Pattern Length)          | 11                                        |                                                                                    |
| TGPL2 (Transmission Gap Pattern Length)          | -                                         | R99 and Rel-4:<br>Only one pattern in use.<br>Rel-5 and onwards:<br>Not applicable |
| TGCFN (Transmission Gap Connection Frame Number) | (Current CFN + (256 - TTI/10msec))mod 256 |                                                                                    |
| UL/DL compressed mode selection                  | DL, UL or DL & UL                         | 3 configurations possible.<br>DL, UL or both DL and UL                             |
| UL compressed mode method                        | SF/2                                      |                                                                                    |
| DL compressed mode method                        | Puncturing                                |                                                                                    |
| Scrambling code change                           | No                                        |                                                                                    |
| RPP (Recovery period power control mode)         | 0                                         |                                                                                    |
| ITP (Initial transmission power control mode)    | 0                                         |                                                                                    |

### 6.8.1.3 Inter RAT measurement (GSM - Carrier RSSI)

The configuration parameters for an Inter RAT measurement (GSM - Carrier RSSI) is shown in table 6.8.3.

**Table 6.8.3: Compressed mode parameters (Inter RAT measurement - GSM Carrier RSSI)**

| Parameter                                    | Value | Note |
|----------------------------------------------|-------|------|
| TGSN (Transmission Gap Starting Slot Number) | 4     |      |



|                                                  |                                           |                                                                                    |
|--------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|
| TGL1 (Transmission Gap Length 1)                 | 7                                         |                                                                                    |
| TGL2 (Transmission Gap Length 2)                 | -                                         | Only one gap in use.                                                               |
| TGD (Transmission Gap Distance)                  | undefined                                 |                                                                                    |
| TGPL1 (Transmission Gap Pattern Length)          | 12                                        |                                                                                    |
| TGPL2 (Transmission Gap Pattern Length)          | -                                         | R99 and Rel-4:<br>Only one pattern in use.<br>Rel-5 and onwards:<br>Not applicable |
| TGCFN (Transmission Gap Connection Frame Number) | (Current CFN + (256 - TTI/10msec))mod 256 |                                                                                    |
| UL/DL compressed mode selection                  | DL, UL or DL & UL                         | 3 configurations possible.<br>DL, UL or both DL and UL                             |
| UL compressed mode method                        | SF/2                                      |                                                                                    |
| DL compressed mode method                        | SF/2                                      |                                                                                    |
| Scrambling code change                           | No                                        |                                                                                    |
| RPP (Recovery period power control mode)         | 0                                         |                                                                                    |
| ITP (Initial transmission power control mode)    | 0                                         |                                                                                    |

#### 6.8.1.4 Inter RAT measurement (GSM - Initial BSIC Identification)

The configuration parameters for an inter frequency RAT measurement ( GSM - Initial BSIC Identification ) is shown in table 6.8.4.

**Table 6.8.4: Compressed mode parameters (Inter RAT measurement - GSM Initial BSIC Identification)**

| Parameter                                        | Value                                     | Note                                                                               |
|--------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|
| TGSN (Transmission Gap Starting Slot Number)     | 4                                         |                                                                                    |
| TGL1 (Transmission Gap Length 1)                 | 7                                         |                                                                                    |
| TGL2 (Transmission Gap Length 2)                 | -                                         | Only one gap in use.                                                               |
| TGD (Transmission Gap Distance)                  | undefined                                 |                                                                                    |
| TGPL1 (Transmission Gap Pattern Length)          | 8                                         |                                                                                    |
| TGPL2 (Transmission Gap Pattern Length)          | -                                         | R99 and Rel-4:<br>Only one pattern in use.<br>Rel-5 and onwards:<br>Not applicable |
| TGCFN (Transmission Gap Connection Frame Number) | (Current CFN + (256 - TTI/10msec))mod 256 |                                                                                    |
| UL/DL compressed mode selection                  | DL, UL or DL & UL                         | 3 configurations possible.<br>DL, UL or both DL and UL                             |
| UL compressed mode method                        | SF/2                                      |                                                                                    |
| DL compressed mode method                        | SF/2                                      |                                                                                    |
| Scrambling code change                           | No                                        |                                                                                    |
| RPP (Recovery period power control mode)         | 0                                         |                                                                                    |
| ITP (Initial transmission power control mode)    | 0                                         |                                                                                    |

#### 6.8.1.5 Inter RAT measurement (GSM - BSIC re-confirmation)

The configuration parameters for an inter RAT measurement ( GSM - BSIC re-confirmation ) is shown in table 6.8.5.

**Table 6.8.5: Compressed mode parameters (Inter RAT measurement - GSM BSIC re-confirmation)**

| Parameter                                        | Value                                     | Note                                                                               |
|--------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|
| TGSN (Transmission Gap Starting Slot Number)     | 4                                         |                                                                                    |
| TGL1 (Transmission Gap Length 1)                 | 7                                         |                                                                                    |
| TGL2 (Transmission Gap Length 2)                 | -                                         | Only one gap in use.                                                               |
| TGD (Transmission Gap Distance)                  | undefined                                 |                                                                                    |
| TGPL1 (Transmission Gap Pattern Length)          | 8                                         |                                                                                    |
| TGPL2 (Transmission Gap Pattern Length)          | -                                         | R99 and Rel-4:<br>Only one pattern in use.<br>Rel-5 and onwards:<br>Not applicable |
| TGCFN (Transmission Gap Connection Frame Number) | (Current CFN + (256 - TTI/10msec))mod 256 |                                                                                    |

|                                               |                   |                                                        |
|-----------------------------------------------|-------------------|--------------------------------------------------------|
| UL/DL compressed mode selection               | DL, UL or DL & UL | 3 configurations possible.<br>DL, UL or both DL and UL |
| UL compressed mode method                     | SF/2              |                                                        |
| DL compressed mode method                     | SF/2              |                                                        |
| Scrambling code change                        | No                |                                                        |
| RPP (Recovery period power control mode)      | 0                 |                                                        |
| ITP (Initial transmission power control mode) | 0                 |                                                        |

## 6.8.2 Multiple compressed mode patterns

Configuration parameters in multiple compressed mode patterns for several types of measurement objects are described in the following clauses.

### 6.8.2.1 Inter RAT measurement GSM

The configuration parameters for an inter RAT measurement (GSM - Carrier RSSI, Initial BSIC Identification and BSIC Re-confirmation) is shown in table 6.8.6.

**Table 6.8.6: Compressed mode parameters (Inter RAT measurement - GSM Carrier RSSI and Initial BSIC identification and BSIC re-confirmation)**

| Parameter                                         | GSM Carrier RSSI                           | GSM Initial BSIC identification            | GSM BSIC re-confirmation                   | Note                                                                                |
|---------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------|
| TGSN (Transmission Gap Starting Slot Number)      | 4                                          | 4                                          | 4                                          |                                                                                     |
| TGL1 (Transmission Gap Length 1)                  | 7                                          | 7                                          | 7                                          |                                                                                     |
| TGL2 (Transmission Gap Length 2)                  | -                                          | -                                          | -                                          | Only one gap in use.                                                                |
| TGD (Transmission Gap Distance)                   | undefined                                  | undefined                                  | undefined                                  |                                                                                     |
| TGPL1 (Transmission Gap Pattern Length)           | 12                                         | 8                                          | 8                                          |                                                                                     |
| TGPL2 (Transmission Gap Pattern Length)           | -                                          | -                                          | -                                          | R99 and Rel-4:<br>Only one pattern in use.<br>Rel-5 and onwards:<br>Not applicable. |
| TGCFN (Transmission Gap Connection Frame Number): | (Current CFN + (252 - TTI/10msec)) mod 256 | (Current CFN + (254 - TTI/10msec)) mod 256 | (Current CFN + (250 - TTI/10msec)) mod 256 | Defined by higher layers                                                            |
| UL/DL compressed mode selection                   | DL, UL or DL & UL                          | DL, UL or DL & UL                          | DL, UL or DL & UL                          | 3 configurations possible.<br>DL, UL or both DL and UL                              |
| UL compressed mode method                         | SF/2                                       | SF/2                                       | SF/2                                       |                                                                                     |
| DL compressed mode method                         | SF/2                                       | SF/2                                       | SF/2                                       |                                                                                     |
| Scrambling code change                            | No                                         | No                                         | No                                         |                                                                                     |
| RPP (Recovery period power control mode)          | 0                                          | 0                                          | 0                                          |                                                                                     |
| ITP (Initial transmission power control mode)     | 0                                          | 0                                          | 0                                          |                                                                                     |

### 6.8.2.2 Inter Frequency FDD measurement & Inter RAT measurement GSM

The configuration parameters for Inter Frequency FDD measurement and Inter RAT measurement (GSM - Carrier RSSI, Initial BSIC Identification and BSIC Re-confirmation) is shown in table 6.8.7.

The pattern is illustrated by Figure 6.8.2.2.

**Table 6.8.7: Compressed mode parameters (Inter Frequency and Inter RAT measurement - GSM Carrier RSSI and Initial BSIC identification and BSIC re-confirmation)**

| Parameter                       | Inter Frequency FDD | GSM Carrier RSSI | GSM Initial BSIC identification | GSM BSIC re-confirmation | Note |
|---------------------------------|---------------------|------------------|---------------------------------|--------------------------|------|
| TGSN (Transmission Gap Starting | 8                   | 8                | 8                               | 8                        |      |

| Parameter                                         | Inter Frequency FDD                        | GSM Carrier RSSI                           | GSM Initial BSIC identification            | GSM BSIC re-confirmation                   | Note                                                                         |
|---------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------|
| Slot Number)                                      |                                            |                                            |                                            |                                            |                                                                              |
| TGL1 (Transmission Gap Length 1)                  | 14                                         | 14                                         | 14                                         | 14                                         |                                                                              |
| TGL2 (Transmission Gap Length 2)                  | 14                                         | 14                                         | 14                                         | 14                                         |                                                                              |
| TGD (Transmission Gap Distance)                   | 0                                          | 60                                         | 45                                         | 0                                          |                                                                              |
| TGPL1 (Transmission Gap Pattern Length)           | 12                                         | 24                                         | 24                                         | 24                                         |                                                                              |
| TGPL2 (Transmission Gap Pattern Length)           | -                                          | -                                          | -                                          | -                                          | R99 and Rel-4: Only one pattern in use.<br>Rel-5 and onwards: Not applicable |
| TGCFN (Transmission Gap Connection Frame Number): | (Current CFN + (238 - TTI/10msec)) mod 256 | (Current CFN + (242 - TTI/10msec)) mod 256 | (Current CFN + (256 - TTI/10msec)) mod 256 | (Current CFN + (253 - TTI/10msec)) mod 256 | Defined by higher layers                                                     |
| UL/DL compressed mode selection                   | DL, UL or DL & UL                          | DL, UL or DL & UL                          | DL, UL or DL & UL                          | DL, UL or DL & UL                          | 3 configurations possible. DL, UL or both DL and UL                          |
| UL compressed mode method                         | SF/2                                       | SF/2                                       | SF/2                                       | SF/2                                       |                                                                              |
| DL compressed mode method                         | SF/2                                       | SF/2                                       | SF/2                                       | SF/2                                       |                                                                              |
| Scrambling code change                            | No                                         | No                                         | No                                         | No                                         |                                                                              |
| RPP (Recovery period power control mode)          | 0                                          | 0                                          | 0                                          | 0                                          |                                                                              |
| ITP (Initial transmission power control mode)     | 0                                          | 0                                          | 0                                          | 0                                          |                                                                              |

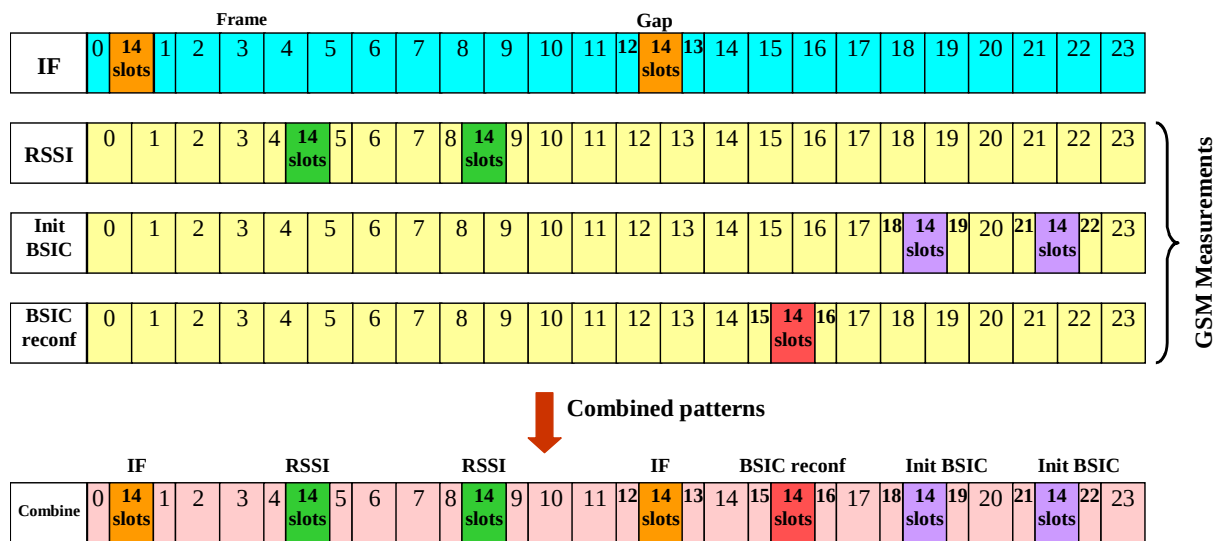


Figure 6.8.2.2: Inter-frequency (IF) and Inter-RAT (IRAT) measurement gaps during 24 frames cycle for the compressed mode pattern as specified in Table 6.8.7

### 6.8.2.3 Inter Frequency FDD measurement & Inter Frequency TDD measurement

FFS

### 6.8.2.4 Inter Frequency TDD measurement & Inter RAT measurement GSM

FFS

#### 6.8.2.5 Inter Frequency FDD measurement & Inter Frequency TDD measurement & Inter RAT measurement GSM

FFS

### 6.9 BCCH parameters

See clause 6.1.

## 6.10 Reference Radio Bearer configurations used in Radio Bearer interoperability testing

The reference radio bearer configurations are typical configurations of the radio interface. This sub-set of the mandatory set of radio bearer configurations supported by the UE is intended to be used as test configurations for testing of the UE. The purpose of the reference radio bearer configurations is to ensure interoperability of UE's in different regions and networks.

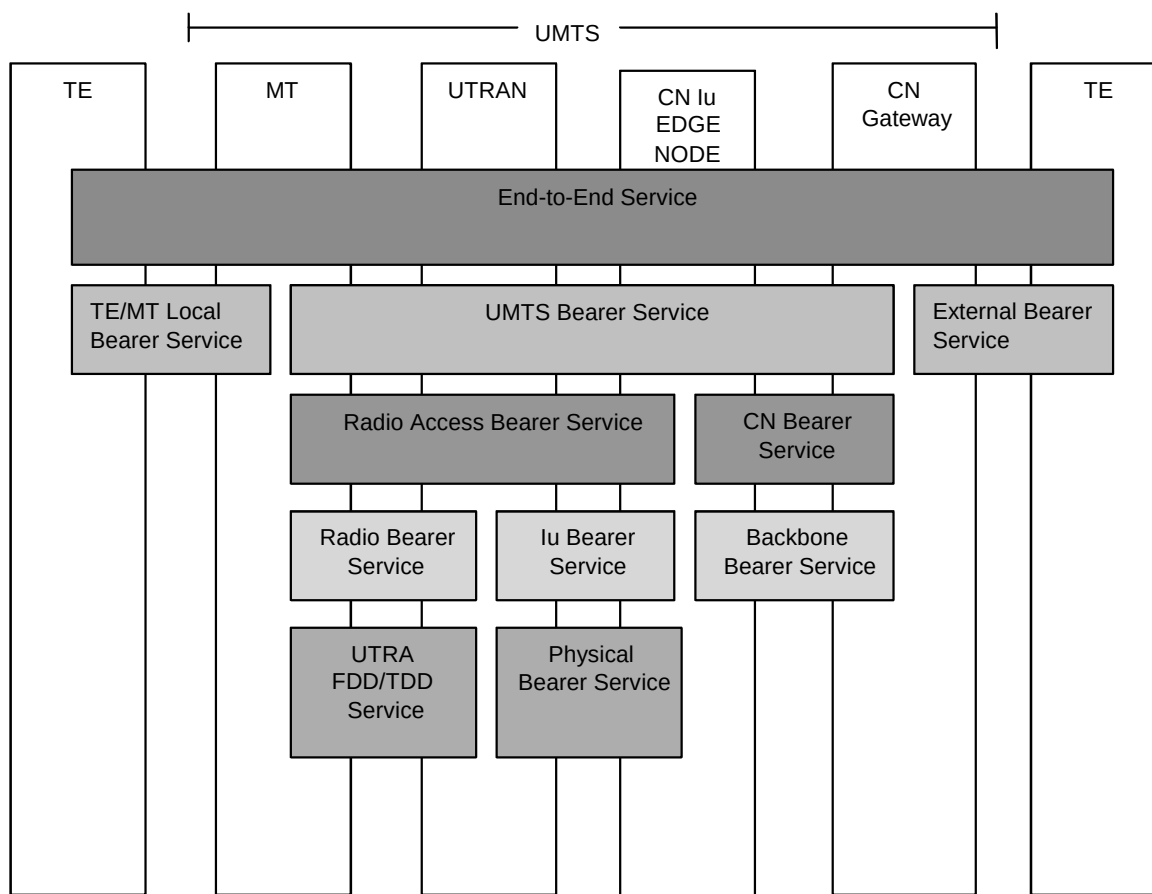
The reference radio bearer configurations are used in the radio bearer interoperability test cases, clause 14 of 3GPP TS 34.123-1 [1]. The reference radio bearer configurations are also intended to be the first choice for other test cases where a radio bearer configuration is needed. For test cases requiring alternative configurations not provided by the reference radio bearer configurations then these specific radio bearer configurations are either specified in the actual test case itself; or in case the configurations are used by more than one test case then these common radio bearer configurations are specified in clause 6.11 of the present document.

**NOTE:** If not specifically specified then the mid-value of the RM attribute value range as specified by the actual reference radio bearer configuration shall be applied for testing. However, in the case of UL and DL:3.4 kbps SRBs for DCCCH and where the Choice "Same As UL" is used for the IE "DL Transport channel information common for all transport channel", the RM attribute for the "DL:3.4 kbps SRBs for DCCCH" shall be set to the same value as that used in the Uplink.

### 6.10.1 QoS Architecture and RAB attributes

From a user point-of-view services are considered end-to-end, this means from a Terminal Equipment (TE) to another TE. An End-to-End Service may have a certain Quality of Service (QoS) which is provided for the user through the different networks. In UMTS, it is the UMTS Bearer Service that provides the requested QoS through the use of different QoS classes as defined in 3GPP TS 23.107 [15].

The UMTS Bearer Service consists of two parts, the Radio Access Bearer Service, RAB, and the Core Network Bearer Service. The Radio Access Bearer Service is realized by a Radio Bearer Service and an Iu-Bearer Service. The relationship between the services is illustrated in figure 6.10.1.1.



**Figure 6.10.1.1: UMTS QoS Architecture**

The Radio Access Bearer Service is characterized by a number of attributes such as Traffic class, Maximum bit rate, Guaranteed bit rate, SDU error ratio, Residual BER, Transfer Delay etc. As a first approach the four following attributes have been considered to come up with the parameter settings in clause 6.10.2.4 for FDD mode and clause 6.10.3.4 for TDD mode:

- Traffic class;
- SSD;
- Maximum bit rate;
- Residual BER.

The Traffic classes are explained in table 6.10.1.1. The Maximum bit rate has been considered at RLC layer and Physical Layer for the acknowledged and unacknowledged modes respectively. The Residual BER is understood as BER at RLC layer and Transport BLER for the acknowledged and unacknowledged modes respectively.

NOTE: The maximum bit rate in clause 6.10.2.4 for FDD mode and clause 6.10.3.4 for TDD mode is one of the RAB attribute as described above. For Interactive/Background PS RABs, however, the maximum bit rate of Radio Bearer can be lower than the maximum bit rate of RAB attributes due to radio resource management. Bit rates of Interactive/Background PS RABs described in 6.10.2.4 for FDD mode and clause 6.10.3.4 for TDD mode may represent the maximum bit rate of Radio Bearer taking account into this management.

**Table 6.10.1.1: Traffic classes**

| Traffic class                      | Conversational class<br>conversational RT                                                                                           | Streaming class<br>streaming RT                                                                                | Interactive class<br>Interactive best effort         | Background<br>Background best effort                                                    |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Fundamental characteristics</b> | - Preserve time relation (variation) between information entities of the stream<br>Conversational pattern (stringent and low delay) | - Preserve time relation (variation) between information entities of the stream (i.e. some but constant delay) | Request response pattern<br>Preserve payload content | Destination is not expecting the data within a certain time<br>Preserve payload content |
| <b>Example of the application</b>  | - speech, video, etc.                                                                                                               | - facsimile (NT)<br>- streaming audio and video                                                                | - Web browsing                                       | - background download of emails                                                         |

## 6.10.2 RAB and signalling RB for FDD

### 6.10.2.1 RABs and signalling RBs

In the following clauses, the typical parameter sets are presented for reference RABs, signalling RBs and important combinations of them. The data rate given for each RAB is the maximum data rate that can be supported by that RAB.

NOTE: The granularity for each RAB needs to be clarified.

**Table 6.10.2.1.1: Prioritized RABs**

| #  | Traffic class<br>3GPP TS 23.107 [15] | SSD<br>3GPP TS 23.107 [15] | Max. rate, kbps                                        | CS/PS | Version |
|----|--------------------------------------|----------------------------|--------------------------------------------------------|-------|---------|
| 1  | Conversational                       | Speech                     | UL:12.2 DL:12.2                                        | CS    | R99     |
| 1a | Conversational                       | Speech                     | UL:(12.2 7.95 5.9 4.75)<br>DL:(12.2 7.95 5.9 4.75)     | CS    | R99     |
| 1b | Conversational                       | Speech                     | UL:(12.2 7.4 5.9 4.75)<br>DL:(12.2 7.4 5.9 4.75)       | CS    | R99     |
| 2  | Conversational                       | Speech                     | UL:10.2 DL:10.2                                        | CS    | R99     |
| 2a | Conversational                       | Speech                     | UL:(10.2, 6.7, 5.9, 4.75)<br>DL:(10.2, 6.7, 5.9, 4.75) | CS    | R99     |
| 3  | Conversational                       | Speech                     | UL:7.95 DL:7.95                                        | CS    | R99     |
| 4  | Conversational                       | Speech                     | UL:7.4 DL:7.4                                          | CS    | R99     |
| 4a | Conversational                       | Speech                     | UL:(7.4, 6.7, 5.9, 4.75)<br>DL:(7.4, 6.7, 5.9, 4.75)   | CS    | R99     |

| #   | Traffic class<br>3GPP TS 23.107 [15] | SSD<br>3GPP TS 23.107 [15] | Max. rate, kbps                            | CS/PS | Version |
|-----|--------------------------------------|----------------------------|--------------------------------------------|-------|---------|
| 5   | Conversational                       | Speech                     | UL:6.7 DL:6.7                              | CS    | R99     |
| 6   | Conversational                       | Speech                     | UL:5.9 DL:5.9                              | CS    | R99     |
| 7   | Conversational                       | Speech                     | UL:5.15 DL:5.15                            | CS    | R99     |
| 8   | Conversational                       | Speech                     | UL:4.75 DL:4.75                            | CS    | R99     |
| 9   | Conversational                       | Unknown                    | UL:28.8 DL:28.8                            | CS    | R99     |
| 10  | Conversational                       | Unknown                    | UL:64 DL:64                                | CS    | R99     |
| 11  | Conversational                       | Unknown                    | UL:32 DL:32                                | CS    | R99     |
| 11a | Conversational                       | Unknown                    | UL:8 DL:8                                  | PS    | R99     |
| 12  | Streaming                            | Unknown                    | UL:14.4 DL:14.4                            | CS    | R99     |
| 13  | Streaming                            | Unknown                    | UL:28.8 DL:28.8                            | CS    | R99     |
| 14  | Streaming                            | Unknown                    | UL:57.6 DL:57.6                            | CS    | R99     |
| 15  | Void                                 |                            |                                            |       |         |
| 15a | Streaming                            | Unknown                    | UL:16 DL:64                                | PS    | R99     |
| 15b | Streaming                            | Unknown                    | UL:16 DL:128                               | PS    | R99     |
| 16  | Void                                 |                            |                                            |       |         |
| 17  | Void                                 |                            |                                            |       |         |
| 18  | Void                                 |                            |                                            |       |         |
| 19  | Void                                 |                            |                                            |       |         |
| 20  | Interactive or Background            | N/A                        | UL:32 DL:8                                 | PS    | R99     |
| 20a | Interactive or Background            | N/A                        | UL:8 DL:8                                  | PS    | R99     |
| 20b | Interactive or Background            | N/A                        | UL:16 DL:16                                | PS    | R99     |
| 20c | Interactive or Background            | N/A                        | UL:32 DL:32                                | PS    | R99     |
| 21  | Void                                 |                            |                                            |       |         |
| 22  | Interactive or Background            | N/A                        | UL:32 DL:64                                | PS    | R99     |
| 23  | Interactive or Background            | N/A                        | UL:64 DL:64                                | PS    | R99     |
| 24  | Interactive or Background            | N/A                        | UL:64 DL:128                               | PS    | R99     |
| 25  | Interactive or Background            | N/A                        | UL:128 DL:128                              | PS    | R99     |
| 26  | Interactive or Background            | N/A                        | UL:64 DL:384                               | PS    | R99     |
| 27  | Interactive or Background            | N/A                        | UL:128 DL:384                              | PS    | R99     |
| 28  | Interactive or Background            | N/A                        | UL:384 DL:384                              | PS    | R99     |
| 29  | Interactive or Background            | N/A                        | UL:64 DL:2048                              | PS    | R99     |
| 30  | Interactive or Background            | N/A                        | UL:128 DL:2048                             | PS    | R99     |
| 31  | Void                                 |                            |                                            |       |         |
| 32  | Interactive or Background            | N/A                        | UL:64 DL:256                               | PS    | R99     |
| 33  | Interactive or Background            | N/A                        | UL:0 DL:32                                 | PS    | R99     |
| 34  | Interactive or Background            | N/A                        | UL:32 DL: 0                                | PS    | R99     |
| 35  | Interactive or Background            | N/A                        | UL:64 DL:144                               | PS    | R99     |
| 36  | Interactive or Background            | N/A                        | UL:144 DL:144                              | PS    | R99     |
| 37  | Conversational                       | N/A                        | UL:42.8 DL:42.8                            | PS    | REL-5   |
| 38  | Conversational                       | Speech                     | UL:(12.65 8.85 6.6)<br>DL:(12.65 8.85 6.6) | CS    | REL-5   |
| 39  | Interactive or Background            | N/A                        | UL:64 DL:768                               | PS    | REL-5   |

Table 6.10.2.1.2: Signalling RBs

| #  | Maximum rate, kbps                                                                                              | Logical channel | PhyCh onto which<br>SRBs are mapped | Version               |
|----|-----------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------|-----------------------|
| 1  | UL:1.7 DL:1.7                                                                                                   | DCCH            | DPCH                                | R99 and Rel-4<br>only |
| 2  | UL:3.4 DL:3.4                                                                                                   | DCCH            | DPCH                                | R99                   |
| 3  | UL:13.6 DL:13.6                                                                                                 | DCCH            | DPCH                                | R99                   |
| 4  | DL:27.2 (alt. 40.8)                                                                                             | DCCH            | SCCPCH                              | R99                   |
| 5  | UL:16.6/23.8                                                                                                    | CCCH            | PRACH                               | R99/Rel-6             |
| 6  | DL:30.4 (alt. 45.6)                                                                                             | CCCH            | SCCPCH                              | R99                   |
| 7  | DL:33.2 (alt. 49.8)                                                                                             | BCCH            | SCCPCH                              | R99                   |
| 8  | DL:24 (alt. 6.4)                                                                                                | PCCH            | SCCPCH                              | R99                   |
| 9  | DL: 0.15                                                                                                        | DCCH            | DPCH                                | REL-5                 |
| 10 | UL: [max bit rate<br>depending on UE<br>category and TTI], DL:<br>[max bit rate<br>depending on UE<br>category] | DCCH            | E-DPCH/HS-DSCH                      | REL-6                 |

### 6.10.2.2 Combinations of RABs and Signalling RBs

In the present document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

NOTE: It is understood that for speech service the AMR mode may be operated asymmetrically for the uplink and downlink.

#### Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (R99 and Rel-4 only).
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4b) Conversational / speech / UL:(12.2 7.4 5.9 4.75) DL:(12.2 7.4 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH (REL-4).
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Void
- 19) Void.
- 20) Void.
- 21) Void.
- 22) Void.



- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI) + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 24) Void
- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 31) Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35) Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Void
- 37) Void
- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:32 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38a) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:0 DL:0 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38b) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38c) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:32 DL:32 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38d) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38e) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:0 DL:0 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38f) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 38g) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:16 DL:16 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38h) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:32 DL:32 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38i) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38j) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38k) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:32 DL:32 kbps / PS RAB  
+ Interactive or background / UL:32 DL:32 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH (L1 multiplexing).
- 39) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:32 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 41) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:256 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:384 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:128 DL:2 048 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Void
- 47) Void.
- 48) Void.
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or Background / UL:16 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:128 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Void
- 55) Void.
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 57) Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 58) Streaming / unknown / UL:16 DL:64 kbps / PS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 58a) Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 59) Conversational / Speech / UL:42.8 DL:42.8 kbps / PS RAB  
+ Interactive or background / UL:16 DL:16 kbps / PS RAB  
+ Interactive or background / UL:16 DL:16 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5).
- 60) Conversational / Speech / UL:42.8 DL:42.8 kbps / PS RAB  
+ Interactive or background / UL:16 DL:16 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5).
- 61) Conversational / unknown / UL:8 DL:8 kbps / PS RAB  
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB +  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 62) Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH (REL-5).
- 63) Interactive or background / UL:64 DL:768 kbps / PS RAB  
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH (REL-5).

#### Combinations on DSCH and DPCH

- 1) Void

- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB  
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH (R99 and Rel-4 only).
- 3) Interactive or background / UL:64 DL:2 048 kbps / PS RAB  
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH (R99 and Rel-4 only).
- 4) Void
- 5) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:384 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH (R99 and Rel-4 only).
- 6) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:2 048 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH (R99 and Rel-4 only).

#### Combinations on SCCPCH

- 1) Stand-alone 24 kbps SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB  
+ SRB for CCCH  
+ SRBs for DCCH  
+ SRB for BCCH.
- 3) Interactive or background / DL:32 kbps / PS RAB  
+ SRB for PCCH  
+ SRB for CCCH  
+ SRBs for DCCH  
+ SRB for BCCH.
- 4) RB for CTCH  
+ SRB for CCCH  
+SRB for BCCH
- 5) 64.8kbps RB for MTCH with 80 ms TTI
- 6) 129.6 kbps RB for MTCH with 80 ms TTI
- 7) 259.2 kbps RB for MTCH with 40 ms TTI
- 8) 7.6 kbps signalling RB for MCCH
- 9) Interactive or background / DL:32 kbps / PS RAB  
+ SRB for PCCH  
+ SRB for CCCH  
+ SRBs for DCCH  
+ SRB for BCCH  
+ SRB for MCCH.

#### Combinations on PRACH

- 1) Interactive or background / UL:32 kbps / PS RAB  
+ SRB for CCCH  
+ SRBs for DCCH.

#### Combinations on DPCH and HS-PDSCH

- 1) Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 1a) Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 2) Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 3a) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 4) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 4a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 5) Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 5a) Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 6) Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 7) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 8) Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Interactive or Background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH (REL-5)
- 9) Streaming MBMS PTP / unknown / UL:16 DL: [max bit rate depending on UE category] kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-6)
- 10) Streaming MBMS PTP / unknown / UL:16 DL: [max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-6)

#### Combinations on HS-PDSCH and E-DPDCH

- 0) Stand-alone UL: [max bit rate depending on UE category and TTI] DL:[max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-6)
- 1) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH (REL-6)
- 2) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH (REL-6)
- 3) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-6)
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 5) Streaming or interactive or background / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH

- 6) Conversational / unknown or speech / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-6)
- 7) Conversational / unknown or speech / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-6)
- 8) Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH (REL-6)
- 9) Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) kbps DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB on E-DCH and HS-DSCH + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-8 + NOTE1)
- 10) Conversational / speech / UL:(12.65, 8.85, 6.6) kbps DL: (12.65, 8.85, 6.6) kbps / CS RAB on E-DCH and HS-DSCH + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-8 + NOTE1)

NOTE1: Support depends on the UE capability: Support for CS voice over HSPA. This is supported in rel-8 and may be supported in rel-7.

#### Combinations on PRACH and HS-DSCH

- 1) Interactive/Background / UL:32 DL: [max bit rate depending on UE category] with fixed RLC and MAC-ehs / PS RAB + SRBs for CCCH + DCCH on RACH and SRB with fixed RLC and MAC-ehs on HS-DSCH / DL:QPSK

### 6.10.2.3 Example of linkage between RABs and services

RABs, which are included in the present document, can provide the services as shown in table 6.10.1.1. Furthermore, the required BER for each RAB, which is assumed in the present document, is shown in table 6.10.2.3.1.

**Table 6.10.2.3.1: Example of linkage between RABs and services**

| RAB                       |          |                              |       | Residual BER [15]                                                  | Services                              |
|---------------------------|----------|------------------------------|-------|--------------------------------------------------------------------|---------------------------------------|
| Traffic class [15]        | SSD [15] | Max. rate, kbps              | CS/PS |                                                                    |                                       |
| Conversational            | Speech   | UL:4.75-12.2<br>DL:4.75-12.2 | CS    | $5 \times 10^{-4}$ ,<br>$1 \times 10^{-3}$ ,<br>$5 \times 10^{-3}$ | AMR speech                            |
| Conversational            | Unknown  | UL:64 DL:64                  | CS    | $1 \times 10^{-4}$ or<br>$1 \times 10^{-6}$                        | UDI 1B, 64k 3G-324M [15]              |
| Conversational            | Unknown  | UL:32 DL:32                  | CS    | $1 \times 10^{-4}$ or<br>$1 \times 10^{-6}$                        | 32k 3G-324M [15]                      |
| Conversational            | Unknown  | UL:28.8 DL:28.8              | CS    | $1 \times 10^{-3}$                                                 | Transparent modem                     |
| Streaming                 | Unknown  | UL:14.4 DL:14.4              | CS    | $1 \times 10^{-3}$                                                 | FAX <sup>[6]</sup>                    |
| Streaming                 | Unknown  | UL:28.8 DL:28.8              | CS    | $1 \times 10^{-3}$                                                 | FAX [18]<br>PIAFS 32 kbps             |
| Streaming                 | Unknown  | UL:57.6 DL:57.6              | CS    | $1 \times 10^{-3}$                                                 | Modem [18], FTM [17]<br>PIAFS 64 kbps |
| Streaming                 | Unknown  | UL:64-128 or<br>DL:64-384    | CS    | $1 \times 10^{-3}$ or<br>$1 \times 10^{-4}$                        | Streaming video, uni-directional      |
| Interactive or Background | N/A      | UL:32-384<br>DL:8-2048       | PS    | $1 \times 10^{-3}$ or<br>$1 \times 10^{-4}$                        | Packet                                |

NOTE 1: SMS can be provided via the signalling RB (DCCH) on DPCH or SCCPCH.

NOTE 2: CBS can be provided via the signalling RB (CTCH) on SCCPCH.

NOTE 3: UDI  $nB$  can be provided via  $n$  RABs of conversational 64 kbps.

## 6.10.2.4 Typical radio parameter sets

NOTE: The order of tables and MAC-d flow numbering in this section may be different than the RB IDs and MAC-d flow IDs as defined in default messages in section 9.

### 6.10.2.4.1 Combinations on DPCH

#### 6.10.2.4.1.1 Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH

##### 6.10.2.4.1.1.1 Uplink

##### 6.10.2.4.1.1.1.1 Transport channel parameters

##### 6.10.2.4.1.1.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

|              |                                                             |                                |       |                     |                    |
|--------------|-------------------------------------------------------------|--------------------------------|-------|---------------------|--------------------|
| Higher layer | RAB/signalling RB                                           | SRB#1                          | SRB#2 | SRB#3               | SRB#4              |
|              | User of Radio Bearer                                        | RRC                            | RRC   | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC          | Logical channel type                                        | DCCH                           | DCCH  | DCCH                | DCCH               |
|              | RLC mode                                                    | UM                             | AM    | AM                  | AM                 |
|              | Payload sizes, bit                                          | 136                            | 128   | 128                 | 128                |
|              | Max data rate, bps                                          | 1 700                          | 1 600 | 1 600               | 1 600              |
|              | AMD/UMD PDU header, bit                                     | 8                              | 16    | 16                  | 16                 |
| MAC          | MAC header, bit                                             | 4                              | 4     | 4                   | 4                  |
|              | MAC multiplexing                                            | 4 logical channel multiplexing |       |                     |                    |
| Layer 1      | TrCH type                                                   | DCH                            |       |                     |                    |
|              | TB sizes, bit                                               | 148 (alt 0, 148)               |       |                     |                    |
|              | TFS                                                         | 0x148 (alt 1x0)                |       |                     |                    |
|              |                                                             | 1x148                          |       |                     |                    |
|              | TTI, ms                                                     | 80                             |       |                     |                    |
|              | Coding type                                                 | CC 1/3                         |       |                     |                    |
|              | CRC, bit                                                    | 16                             |       |                     |                    |
|              | Max number of bits/TTI before rate matching                 | 516                            |       |                     |                    |
|              | Uplink: Max number of bits/radio frame before rate matching | 65                             |       |                     |                    |
|              | RM attribute                                                | 155 to 185                     |       |                     |                    |

##### 6.10.2.4.1.1.1.1.2 TFCS

|           |                          |
|-----------|--------------------------|
| TFCS size | 2                        |
| TFCS      | SRBs for DCCH = TF0, TF1 |

##### 6.10.2.4.1.1.1.2 Physical channel parameters

|             |                                           |     |
|-------------|-------------------------------------------|-----|
| DPCH Uplink | Min spreading factor                      | 256 |
|             | Max number of DPDCH data bits/radio frame | 150 |
|             | Puncturing Limit                          | 1   |

##### 6.10.2.4.1.1.2 Downlink

##### 6.10.2.4.1.1.2.1 Transport channel parameters

##### 6.10.2.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

|              |                      |       |       |                     |                    |
|--------------|----------------------|-------|-------|---------------------|--------------------|
| Higher layer | RAB/signalling RB    | SRB#1 | SRB#2 | SRB#3               | SRB#4              |
|              | User of Radio Bearer | RRC   | RRC   | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC          | Logical channel type | DCCH  | DCCH  | DCCH                | DCCH               |
|              | RLC mode             | UM    | AM    | AM                  | AM                 |

|                                                                                         |                                             |           |                                |       |       |       |
|-----------------------------------------------------------------------------------------|---------------------------------------------|-----------|--------------------------------|-------|-------|-------|
|                                                                                         | Payload sizes, bit                          |           | 136                            | 128   | 128   | 128   |
|                                                                                         | Max data rate, bps                          |           | 1 700                          | 1 600 | 1 600 | 1 600 |
|                                                                                         | AMD/UMD PDU header, bit                     |           | 8                              | 16    | 16    | 16    |
| MAC                                                                                     | MAC header, bit                             |           | 4                              | 4     | 4     | 4     |
|                                                                                         | MAC multiplexing                            |           | 4 logical channel multiplexing |       |       |       |
| Layer 1                                                                                 | TrCH type                                   |           | DCH                            |       |       |       |
|                                                                                         | TB sizes, bit                               |           | 148 (alt 0, 148) (note)        |       |       |       |
|                                                                                         | TFS                                         | TF0, bits | 0 x148 (alt 1x0) (note)        |       |       |       |
|                                                                                         |                                             | TF1, bits | 1x148                          |       |       |       |
|                                                                                         | TTI, ms                                     |           | 80                             |       |       |       |
|                                                                                         | Coding type                                 |           | CC 1/3                         |       |       |       |
|                                                                                         | CRC, bit                                    |           | 16                             |       |       |       |
|                                                                                         | Max number of bits/TTI before rate matching |           | 516                            |       |       |       |
|                                                                                         | RM attribute                                |           | 155 to 185                     |       |       |       |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. |                                             |           |                                |       |       |       |

## 6.10.2.4.1.1.2.1.2 TFCS

|           |                          |
|-----------|--------------------------|
| TFCS size | 2                        |
| TFCS      | SRBs for DCCH = TF0, TF1 |

## 6.10.2.4.1.1.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 512   |
|               | DPCCH            | Number of TFCI bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 4     |
|               |                  | Number of data bits/frame | 60    |

## 6.10.2.4.1.2 Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.2.1 Uplink

## 6.10.2.4.1.2.1.1 Transport channel parameters

## 6.10.2.4.1.2.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

|              |                                                             |           |                                |       |                     |                    |
|--------------|-------------------------------------------------------------|-----------|--------------------------------|-------|---------------------|--------------------|
| Higher layer | RAB/signalling RB                                           |           | SRB#1                          | SRB#2 | SRB#3               | SRB#4              |
|              | User of Radio Bearer                                        |           | RRC                            | RRC   | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC          | Logical channel type                                        |           | DCCH                           | DCCH  | DCCH                | DCCH               |
|              | RLC mode                                                    |           | UM                             | AM    | AM                  | AM                 |
|              | Payload sizes, bit                                          |           | 136                            | 128   | 128                 | 128                |
|              | Max data rate, bps                                          |           | 3 400                          | 3 200 | 3 200               | 3 200              |
|              | AMD/UMD PDU header, bit                                     |           | 8                              | 16    | 16                  | 16                 |
| MAC          | MAC header, bit                                             |           | 4                              | 4     | 4                   | 4                  |
|              | MAC multiplexing                                            |           | 4 logical channel multiplexing |       |                     |                    |
| Layer 1      | TrCH type                                                   |           | DCH                            |       |                     |                    |
|              | TB sizes, bit                                               |           | 148 (alt 0, 148)               |       |                     |                    |
|              | TFS                                                         | TF0, bits | 0x148 (alt 1x0)                |       |                     |                    |
|              |                                                             | TF1, bits | 1x148                          |       |                     |                    |
|              | TTI, ms                                                     |           | 40                             |       |                     |                    |
|              | Coding type                                                 |           | CC 1/3                         |       |                     |                    |
|              | CRC, bit                                                    |           | 16                             |       |                     |                    |
|              | Max number of bits/TTI before rate matching                 |           | 516                            |       |                     |                    |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 129                            |       |                     |                    |
|              | RM attribute                                                |           | 155 to 185                     |       |                     |                    |



## 6.10.2.4.1.2.1.1.2 TFCS

|           |                          |
|-----------|--------------------------|
| TFCS size | 2                        |
| TFCS      | SRBs for DCCH = TF0, TF1 |

## 6.10.2.4.1.2.1.2 Physical channel parameters

|             |                                           |     |
|-------------|-------------------------------------------|-----|
| DPCH Uplink | Min spreading factor                      | 256 |
|             | Max number of DPDCH data bits/radio frame | 150 |
|             | Puncturing Limit                          | 1   |

## 6.10.2.4.1.2.2 Downlink

## 6.10.2.4.1.2.2.1 Transport channel parameters

## 6.10.2.4.1.2.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

|              |                                             |           |                                |       |                     |                    |
|--------------|---------------------------------------------|-----------|--------------------------------|-------|---------------------|--------------------|
| Higher layer | RAB/signalling RB                           |           | SRB#1                          | SRB#2 | SRB#3               | SRB#4              |
|              | User of Radio Bearer                        |           | RRC                            | RRC   | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC          | Logical channel type                        |           | DCCH                           | DCCH  | DCCH                | DCCH               |
|              | RLC mode                                    |           | UM                             | AM    | AM                  | AM                 |
|              | Payload sizes, bit                          |           | 136                            | 128   | 128                 | 128                |
|              | Max data rate, bps                          |           | 3 400                          | 3 200 | 3 200               | 3 200              |
|              | AMD/UMD PDU header, bit                     |           | 8                              | 16    | 16                  | 16                 |
| MAC          | MAC header, bit                             |           | 4                              | 4     | 4                   | 4                  |
|              | MAC multiplexing                            |           | 4 logical channel multiplexing |       |                     |                    |
| Layer 1      | TrCH type                                   |           | DCH                            |       |                     |                    |
|              | TB sizes, bit                               |           | 148 (alt 0, 148) (note)        |       |                     |                    |
|              | TFS                                         | TF0, bits | 0x148 (alt 1x0) (note)         |       |                     |                    |
|              |                                             | TF1, bits | 1x148                          |       |                     |                    |
|              | TTI, ms                                     |           | 40                             |       |                     |                    |
|              | Coding type                                 |           | CC 1/3                         |       |                     |                    |
|              | CRC, bit                                    |           | 16                             |       |                     |                    |
|              | Max number of bits/TTI before rate matching |           | 516                            |       |                     |                    |
|              | RM attribute                                |           | 155 to 230                     |       |                     |                    |

NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE.

## 6.10.2.4.1.2.2.1.2 TFCS

|           |                          |
|-----------|--------------------------|
| TFCS size | 2                        |
| TFCS      | SRBs for DCCH = TF0, TF1 |

## 6.10.2.4.1.2.2.2 Physical channel parameters

|               |                  |                           |
|---------------|------------------|---------------------------|
| DPCH Downlink | DTX position     | Fixed                     |
|               | Spreading factor | 256                       |
|               | DPCCCH           | Number of TFCI bits/slot  |
|               |                  | 0                         |
|               |                  | Number of TPC bits/slot   |
|               |                  | 2                         |
|               | DPDCH            | Number of Pilot bits/slot |
|               |                  | 4                         |
|               |                  | Number of data bits/slot  |
|               |                  | 14                        |
|               |                  | Number of data bits/frame |
|               |                  | 210                       |

## 6.10.2.4.1.3 Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH

## 6.10.2.4.1.3.1 Uplink

## 6.10.2.4.1.3.1.1 Transport channel parameters

## 6.10.2.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

| Higher layer | RAB/signalling RB                                           | SRB#1                          | SRB#2  | SRB#3               | SRB#4              |
|--------------|-------------------------------------------------------------|--------------------------------|--------|---------------------|--------------------|
|              | User of Radio Bearer                                        | RRC                            | RRC    | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC          | Logical channel type                                        | DCCH                           | DCCH   | DCCH                | DCCH               |
|              | RLC mode                                                    | UM                             | AM     | AM                  | AM                 |
|              | Payload sizes, bit                                          | 136                            | 128    | 128                 | 128                |
|              | Max data rate, bps                                          | 13 600                         | 12 800 | 12 800              | 12 800             |
|              | AMD/UMD PDU header, bit                                     | 8                              | 16     | 16                  | 16                 |
| MAC          | MAC header, bit                                             | 4                              | 4      | 4                   | 4                  |
|              | MAC multiplexing                                            | 4 logical channel multiplexing |        |                     |                    |
| Layer 1      | TrCH type                                                   | DCH                            |        |                     |                    |
|              | TB sizes, bit                                               | 148 (alt 0, 148)               |        |                     |                    |
|              | TFS                                                         | 0x148 (alt 1x0)                |        |                     |                    |
|              |                                                             | 1x148                          |        |                     |                    |
|              | TTI, ms                                                     | 10                             |        |                     |                    |
|              | Coding type                                                 | CC 1/3                         |        |                     |                    |
|              | CRC, bit                                                    | 16                             |        |                     |                    |
|              | Max number of bits/TTI before rate matching                 | 516                            |        |                     |                    |
|              | Uplink: Max number of bits/radio frame before rate matching | 516                            |        |                     |                    |

## 6.10.2.4.1.3.1.1.2 TFCS

|           |                          |
|-----------|--------------------------|
| TFCS size | 2                        |
| TFCS      | SRBs for DCCH = TF0, TF1 |

## 6.10.2.4.1.3.1.2 Physical channel parameters

|             |                                           |     |
|-------------|-------------------------------------------|-----|
| DPCH Uplink | Min spreading factor                      | 64  |
|             | Max number of DPDCH data bits/radio frame | 600 |
|             | Puncturing Limit                          | 1   |

## 6.10.2.4.1.3.2 Downlink

## 6.10.2.4.1.3.2.1 Transport channel parameters

## 6.10.2.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

| Higher layer | RAB/signalling RB       | SRB#1                          | SRB#2  | SRB#3               | SRB#4              |
|--------------|-------------------------|--------------------------------|--------|---------------------|--------------------|
|              | User of Radio Bearer    | RRC                            | RRC    | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC          | Logical channel type    | DCCH                           | DCCH   | DCCH                | DCCH               |
|              | RLC mode                | UM                             | AM     | AM                  | AM                 |
|              | Payload sizes, bit      | 136                            | 128    | 128                 | 128                |
|              | Max data rate, bps      | 13 600                         | 12 800 | 12 800              | 12 800             |
|              | AMD/UMD PDU header, bit | 8                              | 16     | 16                  | 16                 |
| MAC          | MAC header, bit         | 4                              | 4      | 4                   | 4                  |
|              | MAC multiplexing        | 4 logical channel multiplexing |        |                     |                    |
| Layer 1      | TrCH type               | DCH                            |        |                     |                    |
|              | TB sizes, bit           | 148 (alt 0, 148) (note)        |        |                     |                    |
|              | TFS                     | 0x148 (alt 1x0) (note)         |        |                     |                    |
|              |                         | 1x148                          |        |                     |                    |
|              | TTI, ms                 | 10                             |        |                     |                    |
|              | Coding type             | CC 1/3                         |        |                     |                    |
|              | CRC, bit                | 16                             |        |                     |                    |

|                                                                                         |                                             |     |
|-----------------------------------------------------------------------------------------|---------------------------------------------|-----|
|                                                                                         | Max number of bits/TTI before rate matching | 516 |
| NOTE: alternative parameters enable the measurement "transport channel BLER" in the UE. |                                             |     |

## 6.10.2.4.1.3.2.1.2 TFCS

|           |                          |
|-----------|--------------------------|
| TFCS size | 2                        |
| TFCS      | SRBs for DCCH = TF0, TF1 |

## 6.10.2.4.1.3.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 128   |
|               | DPCCH            | Number of TFCI bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 34    |
|               |                  | Number of data bits/frame | 510   |

6.10.2.4.1.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps  
SRBs for DCCH

## 6.10.2.4.1.4.1 Uplink

## 6.10.2.4.1.4.1.1 Transport channel parameters

## 6.10.2.4.1.4.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                           |            | RAB subflow #1             | RAB subflow #2 | RAB subflow #3 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------|----------------------------|----------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                        |            | DTCH                       |                |                |
|                                                                                                                                                                                                                           | RLC mode                                                    |            | TM                         | TM             | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                          |            | 39, 81<br>(alt. 0, 39, 81) | 103            | 60             |
|                                                                                                                                                                                                                           | Max data rate, bps                                          |            | 12 200                     |                |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                         |            | 0                          |                |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                             |            | 0                          |                |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                            |            | N/A                        |                |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                                   |            | DCH                        | DCH            | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                               |            | 39, 81<br>(alt. 0, 39, 81) | 103            | 60             |
|                                                                                                                                                                                                                           | TFS                                                         | TF0, bits  | 0x81(alt. 1x0) (note)      | 0x103          | 0x60           |
|                                                                                                                                                                                                                           |                                                             | TF1, bits  | 1x39                       | 1x103          | 1x60           |
|                                                                                                                                                                                                                           |                                                             | TF2, bits  | 1x81                       | N/A            | N/A            |
|                                                                                                                                                                                                                           | TTI, ms                                                     |            | 20                         | 20             | 20             |
|                                                                                                                                                                                                                           | Coding type                                                 |            | CC 1/3                     | CC 1/3         | CC 1/2         |
|                                                                                                                                                                                                                           | CRC, bit                                                    |            | 12                         | N/A            | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding                 |            | 303                        | 333            | 136            |
|                                                                                                                                                                                                                           | Uplink: Max number of bits/radio frame before rate matching |            | 152                        | 167            | 68             |
| RM attribute                                                                                                                                                                                                              |                                                             | 180 to 220 | 170 to 210                 | 215 to 256     |                |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                                             |            |                            |                |                |

## 6.10.2.4.1.4.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.

## 6.10.2.4.1.4.1.1.3 TFCS

|           |                                                     |
|-----------|-----------------------------------------------------|
| TFCS size | 6                                                   |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)= |

|  |                                                                                                                                       |
|--|---------------------------------------------------------------------------------------------------------------------------------------|
|  | (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
|--|---------------------------------------------------------------------------------------------------------------------------------------|

#### 6.10.2.4.1.4.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 64   |
|             | Max number of DPDCH data bits/radio frame | 600  |
|             | Puncturing Limit                          | 0.84 |

#### 6.10.2.4.1.4.2 Downlink

##### 6.10.2.4.1.4.2.1 Transport channel parameters

##### 6.10.2.4.1.4.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

| Higher layer                                                                                                                                                                             | RAB/Signalling RB                           |           | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|----------------|----------------|----------------|
| RLC                                                                                                                                                                                      | Logical channel type                        |           | DTCH           |                |                |
|                                                                                                                                                                                          | RLC mode                                    |           | TM             | TM             | TM             |
|                                                                                                                                                                                          | Payload sizes, bit                          |           | 0<br>39<br>81  | 103            | 60             |
|                                                                                                                                                                                          | Max data rate, bps                          |           | 12 200         |                |                |
|                                                                                                                                                                                          | TrD PDU header, bit                         |           | 0              |                |                |
| MAC                                                                                                                                                                                      | MAC header, bit                             |           | 0              |                |                |
|                                                                                                                                                                                          | MAC multiplexing                            |           | N/A            |                |                |
| Layer 1                                                                                                                                                                                  | TrCH type                                   |           | DCH            | DCH            | DCH            |
|                                                                                                                                                                                          | TB sizes, bit                               |           | 0<br>39<br>81  | 103            | 60             |
|                                                                                                                                                                                          | TFS (note 1)                                | TF0, bits | 1x0 (note 2)   | 0x103          | 0x60           |
|                                                                                                                                                                                          |                                             | TF1, bits | 1x39           | 1x103          | 1x60           |
|                                                                                                                                                                                          |                                             | TF2, bits | 1x81           | N/A            | N/A            |
|                                                                                                                                                                                          | TTI, ms                                     |           | 20             | 20             | 20             |
|                                                                                                                                                                                          | Coding type                                 |           | CC 1/3         | CC 1/3         | CC 1/2         |
|                                                                                                                                                                                          | CRC, bit                                    |           | 12             | N/A            | N/A            |
|                                                                                                                                                                                          | Max number of bits/TTI after channel coding |           | 303            | 333            | 136            |
|                                                                                                                                                                                          | RM attribute                                |           | 180 to 220     | 170 to 210     | 215 to 256     |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).                                                            |                                             |           |                |                |                |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                             |           |                |                |                |

##### 6.10.2.4.1.4.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

##### 6.10.2.4.1.4.2.1.3 TFCS

|           |                                                                                                                                                                                              |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                            |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |

#### 6.10.2.4.1.4.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 128   |
|               | DPCCH            | Number of TFCI bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 34    |
|               |                  | Number of data bits/frame | 510   |

- 6.10.2.4.1.4a Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.2.4.1.4a.1 Uplink
- 6.10.2.4.1.4a.1.1 Transport channel parameters
- 6.10.2.4.1.4a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                           | RAB subflow #1                                     | RAB subflow #2        | RAB subflow #3 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------|-----------------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                        | DTCH                                               |                       |                |
|                                                                                                                                                                                                                           | RLC mode                                                    | TM                                                 | TM                    | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                          | 39, 42, 55, 75, 81<br>(alt. 0, 39, 81)             | 53, 63, 84, 103       | 60             |
|                                                                                                                                                                                                                           | Max data rate, bps                                          | 12 200                                             |                       |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                         | 0                                                  |                       |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                             | 0                                                  |                       |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                            | N/A                                                |                       |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                                   | DCH                                                | DCH                   | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                               | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103       | 60             |
|                                                                                                                                                                                                                           | TFS                                                         | TF0, bits                                          | 0x81(alt. 1x0) (note) | 0x103          |
|                                                                                                                                                                                                                           |                                                             | TF1, bits                                          | 1x39                  | 1x53           |
|                                                                                                                                                                                                                           |                                                             | TF2, bits                                          | 1x42                  | 1x63           |
|                                                                                                                                                                                                                           |                                                             | TF3, bits                                          | 1x55                  | 1x84           |
|                                                                                                                                                                                                                           |                                                             | TF4, bits                                          | 1x75                  | 1x103          |
|                                                                                                                                                                                                                           |                                                             | TF5, bits                                          | 1x81                  | N/A            |
|                                                                                                                                                                                                                           | TTI, ms                                                     | 20                                                 | 20                    | 20             |
|                                                                                                                                                                                                                           | Coding type                                                 | CC 1/3                                             | CC 1/3                | CC 1/2         |
|                                                                                                                                                                                                                           | CRC, bit                                                    | 12                                                 | N/A                   | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding                 | 303                                                | 333                   | 136            |
|                                                                                                                                                                                                                           | Uplink: Max number of bits/radio frame before rate matching | 152                                                | 167                   | 68             |
|                                                                                                                                                                                                                           | RM attribute                                                | 180 to 220                                         | 170 to 210            | 215 to 256     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                                             |                                                    |                       |                |

- 6.10.2.4.1.4a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

- 6.10.2.4.1.4a.1.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),<br>(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |

- 6.10.2.4.1.4a.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 64   |
|             | Max number of DPDCH data bits/radio frame | 600  |
|             | Puncturing Limit                          | 0.84 |

## 6.10.2.4.1.4a.2 Downlink

## 6.10.2.4.1.4a.2.1 Transport channel parameters

## 6.10.2.4.1.4a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB                                                                                                                                                                        | RAB subflow #1        | RAB subflow #2  | RAB subflow #3 |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|----------------|
| RLC          | Logical channel type                                                                                                                                                                     | DTCH                  |                 |                |
|              | RLC mode                                                                                                                                                                                 | TM                    | TM              | TM             |
|              | Payload sizes, bit                                                                                                                                                                       | 0, 39, 42, 55, 75, 81 | 53, 63, 84, 103 | 60             |
|              | Max data rate, bps                                                                                                                                                                       | 12 200                |                 |                |
|              | TrD PDU header, bit                                                                                                                                                                      | 0                     |                 |                |
| MAC          | MAC header, bit                                                                                                                                                                          | 0                     |                 |                |
|              | MAC multiplexing                                                                                                                                                                         | N/A                   |                 |                |
| Layer 1      | TrCH type                                                                                                                                                                                | DCH                   | DCH             | DCH            |
|              | TB sizes, bit                                                                                                                                                                            | 0, 39, 42, 55, 75, 81 | 53, 63, 84, 103 | 60             |
|              | TFS (note 1)                                                                                                                                                                             | TF0, bits             | 1x0 (note 2)    | 0x103          |
|              |                                                                                                                                                                                          | TF1, bits             | 1x39            | 1x53           |
|              |                                                                                                                                                                                          | TF2, bits             | 1x42            | 1x63           |
|              |                                                                                                                                                                                          | TF3, bits             | 1x55            | 1x84           |
|              |                                                                                                                                                                                          | TF4, bits             | 1x75            | 1x103          |
|              |                                                                                                                                                                                          | TF5, bits             | 1x81            | N/A            |
|              | TTI, ms                                                                                                                                                                                  | 20                    | 20              | 20             |
|              | Coding type                                                                                                                                                                              | CC 1/3                | CC 1/3          | CC 1/2         |
|              | CRC, bit                                                                                                                                                                                 | 12                    | N/A             | N/A            |
|              | Max number of bits/TTI after channel coding                                                                                                                                              | 303                   | 333             | 136            |
|              | RM attribute                                                                                                                                                                             | 180 to 220            | 170 to 210      | 215 to 256     |
|              | NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).                                                            |                       |                 |                |
|              | NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                       |                 |                |

## 6.10.2.4.1.4a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.4a.2.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),<br>(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |

## 6.10.2.4.1.4a.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 128   |
|               | DPCCCH           | Number of TFCI bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 34    |
|               |                  | Number of data bits/frame | 510   |

## 6.10.2.4.1.4b Conversational / speech / UL:(12.2 7.4 5.9 4.75) DL:(12.2 7.4 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH

## 6.10.2.4.1.4b.1.1 Transport channel parameters

## 6.10.2.4.1.4b.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.4 5.9 4.75) kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                           | RAB subflow #1                                     | RAB subflow #2        | RAB subflow #3 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------|-----------------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                        | DTCH                                               |                       |                |
|                                                                                                                                                                                                                           | RLC mode                                                    | TM                                                 | TM                    | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                          | 39, 42, 55, 61, 81<br>(alt. 0, 39, 42, 55, 61, 81) | 53, 63, 87, 103       | 60             |
|                                                                                                                                                                                                                           | Max data rate, bps                                          | 12 200                                             |                       |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                         | 0                                                  |                       |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                             | 0                                                  |                       |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                            | N/A                                                |                       |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                                   | DCH                                                | DCH                   | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                               | 39, 42, 55, 61, 81<br>(alt. 0, 39, 42, 55, 61, 81) | 53, 63, 87, 103       | 60             |
|                                                                                                                                                                                                                           | TFS                                                         | TF0, bits                                          | 0x81(alt. 1x0) (note) | 0x103          |
|                                                                                                                                                                                                                           |                                                             | TF1, bits                                          | 1x39                  | 1x53           |
|                                                                                                                                                                                                                           |                                                             | TF2 bits                                           | 1x42                  | 1x63           |
|                                                                                                                                                                                                                           |                                                             | TF3, bits                                          | 1x55                  | 1x87           |
|                                                                                                                                                                                                                           |                                                             | TF4, bits                                          | 1x61                  | 1x103          |
|                                                                                                                                                                                                                           |                                                             | TF5, bits                                          | 1x81                  | N/A            |
|                                                                                                                                                                                                                           | TTI, ms                                                     | 20                                                 | 20                    | 20             |
|                                                                                                                                                                                                                           | Coding type                                                 | CC 1/3                                             | CC 1/3                | CC 1/2         |
|                                                                                                                                                                                                                           | CRC, bit                                                    | 12                                                 | N/A                   | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding                 | 303                                                | 333                   | 136            |
|                                                                                                                                                                                                                           | Uplink: Max number of bits/radio frame before rate matching | 152                                                | 167                   | 68             |
|                                                                                                                                                                                                                           | RM attribute                                                | 180 to 220                                         | 170 to 210            | 215 to 256     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                                             |                                                    |                       |                |

#### 6.10.2.4.1.4b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See subclause 6.10.2.4.1.2.1.1.1 of [1].

#### 6.10.2.4.1.4b.1.1.3 TFCS

See subclause 6.10.2.4.1.4a.1.1.3 of [1].

#### 6.10.2.4.1.4b.1.1.4 TFC subset list

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFC subset list size | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TFC subset list      | <p>0 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0, TF0,TF1), (TF2,TF1,TF0,TF1)},</p> <p>1 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1)},</p> <p>2 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1)}</p> <p>3 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)}</p> |

#### 6.10.2.4.1.4b.1.2 Physical channel parameters

See subclause 6.10.2.4.1.4a.1.2 of [1].

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 64   |
|             | Max number of DPDCH data bits/radio frame | 600  |
|             | Puncturing Limit                          | 0.84 |

## 6.10.2.4.1.4b.2 Downlink

## 6.10.2.4.1.4b.2.1 Transport channel parameters

## 6.10.2.4.1.4b.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.4 5.9 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB                                                                                                                                                                        | RAB subflow #1        | RAB subflow #2  | RAB subflow #3 |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|----------------|
| RLC          | Logical channel type                                                                                                                                                                     | DTCH                  |                 |                |
|              | RLC mode                                                                                                                                                                                 | TM                    | TM              | TM             |
|              | Payload sizes, bit                                                                                                                                                                       | 0, 39, 42, 55, 61, 81 | 53, 63, 87, 103 | 60             |
|              | Max data rate, bps                                                                                                                                                                       | 12 200                |                 |                |
|              | TrD PDU header, bit                                                                                                                                                                      | 0                     |                 |                |
| MAC          | MAC header, bit                                                                                                                                                                          | 0                     |                 |                |
|              | MAC multiplexing                                                                                                                                                                         | N/A                   |                 |                |
| Layer 1      | TrCH type                                                                                                                                                                                | DCH                   | DCH             | DCH            |
|              | TB sizes, bit                                                                                                                                                                            | 0, 39, 42, 55, 61, 81 | 53, 63, 87, 103 | 60             |
|              | TFS (note 1)                                                                                                                                                                             | TF0, bits             | 1x0 (note 2)    | 0x103          |
|              |                                                                                                                                                                                          | TF1, bits             | 1x39            | 1x53           |
|              |                                                                                                                                                                                          | TF2, bits             | 1x42            | 1x63           |
|              |                                                                                                                                                                                          | TF3, bits             | 1x55            | 1x87           |
|              |                                                                                                                                                                                          | TF4, bits             | 1x61            | 1x103          |
|              |                                                                                                                                                                                          | TF5, bits             | 1x81            | N/A            |
|              | TTI, ms                                                                                                                                                                                  | 20                    | 20              | 20             |
|              | Coding type                                                                                                                                                                              | CC 1/3                | CC 1/3          | CC 1/2         |
|              | CRC, bit                                                                                                                                                                                 | 12                    | N/A             | N/A            |
|              | Max number of bits/TTI after channel coding                                                                                                                                              | 303                   | 333             | 136            |
|              | RM attribute                                                                                                                                                                             | 180 to 220            | 170 to 210      | 215 to 256     |
|              | NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).                                                            |                       |                 |                |
|              | NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                       |                 |                |

## 6.10.2.4.1.4b.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See subclause 6.10.2.4.1.2.2.1.1 of [1].

## 6.10.2.4.1.4b.2.1.3 Transport channel parameters for DL:0.15 kbps SRB#5 for DCCH

See subclause 6.10.2.4.1.62.2.1.3 of [1].

## 6.10.2.4.1.4b.2.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH, DCCH 0.15)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |

## 6.10.2.4.1.4b.2.2 Physical channel parameters

See subclause 6.10.2.4.1.4a.2.2 of [1].

## 6.10.2.4.1.5 Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.5.1 Uplink

## 6.10.2.4.1.5.1.1 Transport channel parameters



## 6.10.2.4.1.5.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                           | RAB subflow #1                         | RAB subflow #2 | RAB subflow #3 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------|----------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                        | DTCH                                   |                |                |
|                                                                                                                                                                                                                           | RLC mode                                                    | TM                                     | TM             | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                          | 39, 65<br>(alt. 0, 39, 65)             | 99             | 40             |
|                                                                                                                                                                                                                           | Max data rate, bps                                          | 10 200                                 |                |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                         | 0                                      |                |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                             | 0                                      |                |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                            | N/A                                    |                |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                                   | DCH                                    | DCH            | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                               | 39, 65<br>(alt. 0, 39, 65)             | 99             | 40             |
|                                                                                                                                                                                                                           | TFS                                                         | TF0, bits<br>0x65 (alt. 1x0)<br>(note) | 0x99           | 0x40           |
|                                                                                                                                                                                                                           |                                                             |                                        |                |                |
|                                                                                                                                                                                                                           |                                                             |                                        |                |                |
|                                                                                                                                                                                                                           | TF1, bits                                                   | 1x39                                   | 1x99           | 1x40           |
|                                                                                                                                                                                                                           | TF2, bits                                                   | 1x65                                   | N/A            | N/A            |
|                                                                                                                                                                                                                           | TTI, ms                                                     | 20                                     | 20             | 20             |
|                                                                                                                                                                                                                           | Coding type                                                 | CC 1/3                                 | CC 1/3         | CC 1/2         |
|                                                                                                                                                                                                                           | CRC, bit                                                    | 12                                     | N/A            | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding                 | 255                                    | 321            | 96             |
|                                                                                                                                                                                                                           | Uplink: Max number of bits/radio frame before rate matching | 128                                    | 161            | 48             |
|                                                                                                                                                                                                                           | RM attribute                                                | 180 to 220                             | 170 to 210     | 215 to 256     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                                             |                                        |                |                |

## 6.10.2.4.1.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.5.1.1.3 TFCS

|           |                                                                                                                                                                                              |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                            |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |

## 6.10.2.4.1.5.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 64   |
|             | Max number of DPDCH data bits/radio frame | 600  |
|             | Puncturing Limit                          | 0.96 |

## 6.10.2.4.1.5.2 Downlink

## 6.10.2.4.1.5.2.1 Transport channel parameters

## 6.10.2.4.1.5.2.1.1 Transport channel parameters for Conversational / speech / DL:10.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB    | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|--------------|----------------------|----------------|----------------|----------------|
| RLC          | Logical channel type | DTCH           |                |                |
|              | RLC mode             | TM             | TM             | TM             |
|              | Payload sizes, bit   | 0<br>39<br>65  | 99             | 40             |
|              | Max data rate, bps   | 10 200         |                |                |
|              | TrD PDU header, bit  | 0              |                |                |
| MAC          | MAC header, bit      | 0              |                |                |
|              | MAC multiplexing     | N/A            |                |                |

|                                                                                                                                                                                          |                                             |            |               |            |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------|---------------|------------|--------|
| Layer 1                                                                                                                                                                                  | TrCH type                                   |            | DCH           | DCH        | DCH    |
|                                                                                                                                                                                          | TB sizes, bit                               |            | 0<br>39<br>65 | 99         | 40     |
|                                                                                                                                                                                          | TFS (note 1)                                | TF0, bits  | 1x0 (note 2)  | 0x99       | 0x40   |
|                                                                                                                                                                                          |                                             | TF1, bits  | 1x39          | 1x99       | 1x40   |
|                                                                                                                                                                                          |                                             | TF2, bits  | 1x65          | N/A        | N/A    |
|                                                                                                                                                                                          | TTI, ms                                     |            | 20            | 20         | 20     |
|                                                                                                                                                                                          | Coding type                                 |            | CC 1/3        | CC 1/3     | CC 1/2 |
|                                                                                                                                                                                          | CRC, bit                                    |            | 12            | N/A        | N/A    |
|                                                                                                                                                                                          | Max number of bits/TTI after channel coding |            | 255           | 321        | 96     |
| RM attribute                                                                                                                                                                             |                                             | 180 to 220 | 170 to 210    | 215 to 256 |        |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).                                                            |                                             |            |               |            |        |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                             |            |               |            |        |

#### 6.10.2.4.1.5.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.5.2.1.3 TFCS

|           |                                                                                                                                                                                              |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                            |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |

#### 6.10.2.4.1.5.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 128   |
|               | DPCCH            | Number of TFCI bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 34    |
|               |                  | Number of data bits/frame | 510   |

#### 6.10.2.4.1.5a Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.2.4.1.5a.1 Uplink

#### 6.10.2.4.1.5a.1.1 Transport channel parameters

#### 6.10.2.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB    |           | RAB subflow #1                                     | RAB subflow #2 | RAB subflow #3 |
|--------------|----------------------|-----------|----------------------------------------------------|----------------|----------------|
| RLC          | Logical channel type |           | DTCH                                               |                |                |
|              | RLC mode             |           | TM                                                 | TM             | TM             |
|              | Payload sizes, bit   |           | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55, 58, 65) | 53, 63, 76, 99 | 40             |
|              | Max data rate, bps   |           | 10 200                                             |                |                |
|              | TrD PDU header, bit  |           | 0                                                  |                |                |
| MAC          | MAC header, bit      |           | 0                                                  |                |                |
|              | MAC multiplexing     |           | N/A                                                |                |                |
| Layer 1      | TrCH type            |           | DCH                                                | DCH            | DCH            |
|              | TB sizes, bit        |           | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55, 58, 65) | 53, 63, 76, 99 | 40             |
|              | TFS                  | TF0, bits | 0x65 (alt. 1x0) (note)                             | 0x99           | 0x40           |
|              |                      | TF1, bits | 1x39                                               | 1x53           | 1x40           |
|              |                      | TF2, bits | 1x42                                               | 1x63           | N/A            |
|              |                      |           |                                                    |                |                |

|       |                                                                                                                                                                                                                     |           |            |            |            |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|------------|------------|
|       |                                                                                                                                                                                                                     | TF3, bits | 1x55       | 1x76       | N/A        |
|       |                                                                                                                                                                                                                     | TF4, bits | 1x58       | 1x99       | N/A        |
|       |                                                                                                                                                                                                                     | TF5, bits | 1x65       | N/A        | N/A        |
|       | TTI, ms                                                                                                                                                                                                             |           | 20         | 20         | 20         |
|       | Coding type                                                                                                                                                                                                         |           | CC 1/3     | CC 1/3     | CC 1/2     |
|       | CRC, bit                                                                                                                                                                                                            |           | 12         | N/A        | N/A        |
|       | Max number of bits/TTI after channel coding                                                                                                                                                                         |           | 255        | 321        | 96         |
|       | Uplink: Max number of bits/radio frame before rate matching                                                                                                                                                         |           | 128        | 161        | 48         |
|       | RM attribute                                                                                                                                                                                                        |           | 180 to 220 | 170 to 210 | 215 to 256 |
| NOTE: | In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |           |            |            |            |

## 6.10.2.4.1.5a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.5a.1.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                              |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=<br>(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),<br>(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |

## 6.10.2.4.1.5a.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 64   |
|             | Max number of DPDCH data bits/radio frame | 600  |
|             | Puncturing Limit                          | 0.96 |

## 6.10.2.4.1.5a.2 Downlink

## 6.10.2.4.1.5a.2.1 Transport channel parameters

## 6.10.2.4.1.5a.2.1.1 Transport channel parameters for Conversational / speech / DL: DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB                           |           | RAB subflow #1        | RAB subflow #2    | RAB subflow #3 |
|--------------|---------------------------------------------|-----------|-----------------------|-------------------|----------------|
| RLC          | Logical channel type                        |           | DTCH                  |                   |                |
|              | RLC mode                                    |           | TM                    | TM                | TM             |
|              | Payload sizes, bit                          |           | 0, 39, 42, 55, 58, 65 | 0, 53, 63, 76, 99 | 40             |
|              | Max data rate, bps                          |           | 10 200                |                   |                |
|              | TrD PDU header, bit                         |           | 0                     |                   |                |
| MAC          | MAC header, bit                             |           | 0                     |                   |                |
|              | MAC multiplexing                            |           | N/A                   |                   |                |
| Layer 1      | TrCH type                                   |           | DCH                   | DCH               | DCH            |
|              | TB sizes, bit                               |           | 0, 39, 42, 55, 58, 65 | 0, 53, 63, 76, 99 | 40             |
|              | TFS (note 1)                                | TF0, bits | 1x0 (note 2)          | 0x99              | 0x40           |
|              |                                             | TF1, bits | 1x39                  | 1x53              | 1x40           |
|              |                                             | TF2, bits | 1x42                  | 1x63              | N/A            |
|              |                                             | TF3, bits | 1x55                  | 1x76              | N/A            |
|              |                                             | TF4, bits | 1x58                  | 1x99              | N/A            |
|              |                                             | TF5, bits | 1x65                  | N/A               | N/A            |
|              | TTI, ms                                     |           | 20                    | 20                | 20             |
|              | Coding type                                 |           | CC 1/3                | CC 1/3            | CC 1/2         |
|              | CRC, bit                                    |           | 12                    | N/A               | N/A            |
|              | Max number of bits/TTI after channel coding |           | 255                   | 321               | 96             |
|              | RM attribute                                |           | 180 to 220            | 170 to 210        | 215 to 256     |

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]).

#### 6.10.2.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.5a.2.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                              |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=<br>(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),<br>(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |

#### 6.10.2.4.1.5a.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 128   |
|               | DPCCH            | Number of TFCI bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 34    |
|               |                  | Number of data bits/frame | 510   |

#### 6.10.2.4.1.6 Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.2.4.1.6.1 Uplink

##### 6.10.2.4.1.6.1.1 Transport channel parameters

##### 6.10.2.4.1.6.1.1.1 Transport channel parameters for Conversational / speech / UL:7.95 kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                           |           | RAB subflow #1            | RAB subflow #2 | RAB subflow #3 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------|---------------------------|----------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                        |           | DTCH                      |                |                |
|                                                                                                                                                                                                                           | RLC mode                                                    |           | TM                        | TM             | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                          |           | 39,75 (alt. 0, 39, 75)    | 84             | 60             |
|                                                                                                                                                                                                                           | Max data rate, bps                                          |           | 7950                      |                |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                         |           | 0                         |                |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                             |           | 0                         |                |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                            |           | N/A                       |                |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                                   |           | DCH                       | DCH            | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                               |           | 39,75 (alt. 0, 39, 75)    | 84             | 60             |
|                                                                                                                                                                                                                           | TFS (note 1)                                                | TF0, bits | 0x75 (alt. 1x0)<br>(note) | 0x84           | 0x60           |
|                                                                                                                                                                                                                           |                                                             | TF1, bits | 1x39                      | 1x84           | N/A            |
|                                                                                                                                                                                                                           |                                                             | TF2, bits | 1x75                      | N/A            | N/A            |
|                                                                                                                                                                                                                           | TTI, ms                                                     |           | 20                        | 20             | 20             |
|                                                                                                                                                                                                                           | Coding type                                                 |           | CC 1/3                    | CC 1/3         | CC 1/2         |
|                                                                                                                                                                                                                           | CRC, bit                                                    |           | 12                        | N/A            | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding                 |           | 285                       | 276            | 0              |
|                                                                                                                                                                                                                           | Uplink: Max number of bits/radio frame before rate matching |           | 143                       | 138            | 0              |
|                                                                                                                                                                                                                           | RM attribute                                                |           | 180 to 220                | 170 to 210     | 215 to 256     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clauses 4.2.1.1 in 3GPP TS 25 212 [14]) |                                                             |           |                           |                |                |

##### 6.10.2.4.1.6.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.6.1.1.3 TFCS

|           |                                                                                                                                                                                                |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                              |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow #3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

#### 6.10.2.4.1.6.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 64   |
|             | Max number of DPDCH data bits/radio frame | 600  |
|             | Puncturing Limit                          | 0.96 |

#### 6.10.2.4.1.6.2 Downlink

##### 6.10.2.4.1.6.2.1 Transport channel parameters

##### 6.10.2.4.1.6.2.1.1 Transport channel parameters for Conversational / speech / DL:7.95 kbps / CS RAB

| Higher layer | RAB/Signalling RB                                                                                                                                                                        |           | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|----------------|----------------|
| RLC          | Logical channel type                                                                                                                                                                     |           | DTCH           |                |                |
|              | RLC mode                                                                                                                                                                                 |           | TM             | TM             | TM             |
|              | Payload sizes, bit                                                                                                                                                                       |           | 0, 39, 75      | 84             | 60             |
|              | Max data rate, bps                                                                                                                                                                       |           | 7950           |                |                |
|              | TrD PDU header, bit                                                                                                                                                                      |           | 0              |                |                |
| MAC          | MAC header, bit                                                                                                                                                                          |           | 0              |                |                |
|              | MAC multiplexing                                                                                                                                                                         |           | N/A            |                |                |
| Layer 1      | TrCH type                                                                                                                                                                                |           | DCH            | DCH            | DCH            |
|              | TB sizes, bit                                                                                                                                                                            |           | 0<br>39<br>75  | 84             | 60             |
|              | TFS (note 1)                                                                                                                                                                             | TF0, bits | 1x0 (note 2)   | 0x84           | 0x60           |
|              |                                                                                                                                                                                          | TF1, bits | 1x39           | 1x84           | N/A            |
|              |                                                                                                                                                                                          | TF2, bits | 1x75           | N/A            | N/A            |
|              | TTI, ms                                                                                                                                                                                  |           | 20             | 20             | 20             |
|              | Coding type                                                                                                                                                                              |           | CC 1/3         | CC 1/3         | CC 1/2         |
|              | CRC, bit                                                                                                                                                                                 |           | 12             | N/A            | N/A            |
|              | Max number of bits/TTI after channel coding                                                                                                                                              |           | 285            | 276            | 0              |
|              | RM attribute                                                                                                                                                                             |           | 180 to 220     | 170 to 210     | 215 to 256     |
|              | NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).                                                            |           |                |                |                |
|              | NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |           |                |                |                |

##### 6.10.2.4.1.6.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.6.2.1.3 TFCS

|           |                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

#### 6.10.2.4.1.6.2.2 Physical channel parameters

|               |                  |                          |       |
|---------------|------------------|--------------------------|-------|
| DPCH Downlink | DTX position     |                          | Fixed |
|               | Spreading factor |                          | 128   |
|               | DPCCH            | Number of TFCI bits/slot | 0     |
|               |                  | Number of TPC bits/slot  | 2     |

|  |       |                           |     |
|--|-------|---------------------------|-----|
|  | DPDCH | Number of Pilot bits/slot | 4   |
|  |       | Number of data bits/slot  | 34  |
|  |       | Number of data bits/frame | 510 |

6.10.2.4.1.7 Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.7.1 Uplink

6.10.2.4.1.7.1.1 Transport channel parameters

6.10.2.4.1.7.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 kbps / CS RAB

| Higher layer | RAB/Signalling RB                                                                                                                                                                                                    |            | RAB subflow #1             | RAB subflow #2 | RAB subflow #3 |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------|----------------|----------------|
| RLC          | Logical channel type                                                                                                                                                                                                 |            | DTCH                       |                |                |
|              | RLC mode                                                                                                                                                                                                             |            | TM                         | TM             | TM             |
|              | Payload sizes, bit                                                                                                                                                                                                   |            | 39, 61 (alt. 0, 39, 61)    | 87             | 60             |
|              | Max data rate, bps                                                                                                                                                                                                   |            | 7400                       |                |                |
|              | TrD PDU header, bit                                                                                                                                                                                                  |            | 0                          |                |                |
| MAC          | MAC header, bit                                                                                                                                                                                                      |            | 0                          |                |                |
|              | MAC multiplexing                                                                                                                                                                                                     |            | N/A                        |                |                |
| Layer 1      | TrCH type                                                                                                                                                                                                            |            | DCH                        | DCH            | DCH            |
|              | TB sizes, bit                                                                                                                                                                                                        |            | 39, 61<br>(alt. 0, 39, 61) | 87             | 60             |
|              | TFS (note 1)                                                                                                                                                                                                         | TF0, bits  | 0x61 (alt. 1x0)<br>(note)  | 0x87           | 0x60           |
|              |                                                                                                                                                                                                                      | TF1, bits  | 1x39                       | 1x87           | N/A            |
|              |                                                                                                                                                                                                                      | TF2, bits  | 1x61                       | N/A            | N/A            |
|              | TTI, ms                                                                                                                                                                                                              |            | 20                         | 20             | 20             |
|              | Coding type                                                                                                                                                                                                          |            | CC 1/3                     | CC 1/3         | CC 1/2         |
|              | CRC, bit                                                                                                                                                                                                             |            | 12                         | N/A            | N/A            |
|              | Max number of bits/TTI after channel coding                                                                                                                                                                          |            | 243                        | 285            | 0              |
|              | Uplink: Max number of bits/radio frame before rate matching                                                                                                                                                          |            | 122                        | 143            | 0              |
| RM attribute |                                                                                                                                                                                                                      | 180 to 220 | 170 to 210                 | 215 to 256     |                |
| NOTE:        | In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clauses 4.2.1.1 in 3GPP TS 25.212 [14]). |            |                            |                |                |

6.10.2.4.1.7.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.7.1.1.3 TFCS

|           |                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.7.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 64   |
|             | Max number of DPDCH data bits/radio frame | 600  |
|             | Puncturing Limit                          | 0.96 |

## 6.10.2.4.1.7.2 Downlink

## 6.10.2.4.1.7.2.1 Transport channel parameters

## 6.10.2.4.1.7.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 kbps / CS RAB

| Higher layer                                                                                                                                                                             | RAB/Signalling RB                           |           | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|----------------|----------------|----------------|
| RLC                                                                                                                                                                                      | Logical channel type                        |           | DTCH           |                |                |
|                                                                                                                                                                                          | RLC mode                                    |           | TM             | TM             | TM             |
|                                                                                                                                                                                          | Payload sizes, bit                          |           | 0<br>39<br>61  | 87             | 60             |
|                                                                                                                                                                                          | Max data rate, bps                          |           | 7400           |                |                |
|                                                                                                                                                                                          | TrD PDU header, bit                         |           | 0              |                |                |
| MAC                                                                                                                                                                                      | MAC header, bit                             |           | 0              |                |                |
|                                                                                                                                                                                          | MAC multiplexing                            |           | N/A            |                |                |
| Layer 1                                                                                                                                                                                  | TrCH type                                   |           | DCH            | DCH            | DCH            |
|                                                                                                                                                                                          | TB sizes, bit                               |           | 0<br>39<br>61  | 87             | 60             |
|                                                                                                                                                                                          | TFS (note 1)                                | TF0, bits | 1x0 (note 2)   | 0x87           | 0x60           |
|                                                                                                                                                                                          |                                             | TF1, bits | 1x39           | 1x87           | N/A            |
|                                                                                                                                                                                          |                                             | TF2, bits | 1x61           | N/A            | N/A            |
|                                                                                                                                                                                          | TTI, ms                                     |           | 20             | 20             | 20             |
|                                                                                                                                                                                          | Coding type                                 |           | CC 1/3         | CC 1/3         | CC 1/2         |
|                                                                                                                                                                                          | CRC, bit                                    |           | 12             | N/A            | N/A            |
|                                                                                                                                                                                          | Max number of bits/TTI after channel coding |           | 243            | 285            | 0              |
|                                                                                                                                                                                          | RM attribute                                |           | 180 to 220     | 170 to 210     | 215 to 256     |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).                                                            |                                             |           |                |                |                |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                             |           |                |                |                |

## 6.10.2.4.1.7.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.7.2.1.3 TFCS

|           |                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

## 6.10.2.4.1.7.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 128   |
|               | DPCCH            | Number of TFCI bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 34    |
|               |                  | Number of data bits/frame | 510   |

## 6.10.2.4.1.7a Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.7a.1 Uplink

## 6.10.2.4.1.7a.1.1 Transport channel parameters

## 6.10.2.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                           | RAB subflow #1                                  | RAB subflow #2         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------|------------------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                        | DTCH                                            |                        |
|                                                                                                                                                                                                                           | RLC mode                                                    | TM                                              | TM                     |
|                                                                                                                                                                                                                           | Payload sizes, bit                                          | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87         |
|                                                                                                                                                                                                                           | Max data rate, bps                                          | 7 400                                           |                        |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                         | 0                                               |                        |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                             | 0                                               |                        |
|                                                                                                                                                                                                                           | MAC multiplexing                                            | N/A                                             |                        |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                                   | DCH                                             | DCH                    |
|                                                                                                                                                                                                                           | TB sizes, bit                                               | 39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87         |
|                                                                                                                                                                                                                           | TFS                                                         | TF0, bits                                       | 0x61 (alt. 1x0) (note) |
|                                                                                                                                                                                                                           |                                                             | TF1, bits                                       | 1x39                   |
|                                                                                                                                                                                                                           |                                                             | TF2, bits                                       | 1x42                   |
|                                                                                                                                                                                                                           |                                                             | TF3, bits                                       | 1x55                   |
|                                                                                                                                                                                                                           |                                                             | TF4, bits                                       | 1x58                   |
|                                                                                                                                                                                                                           |                                                             | TF5, bits                                       | 1x61                   |
|                                                                                                                                                                                                                           | TTI, ms                                                     | 20                                              | 20                     |
|                                                                                                                                                                                                                           | Coding type                                                 | CC 1/3                                          | CC 1/3                 |
|                                                                                                                                                                                                                           | CRC, bit                                                    | 12                                              | N/A                    |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding                 | 243                                             | 285                    |
|                                                                                                                                                                                                                           | Uplink: Max number of bits/radio frame before rate matching | 122                                             | 143                    |
|                                                                                                                                                                                                                           | RM attribute                                                | 180 to 220                                      | 170 to 210             |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                                             |                                                 |                        |

#### 6.10.2.4.1.7a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.7a.1.1.3 TFCS

|           |                                                                                                                                                                                                                                                        |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                     |
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, TF4, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, TF4, TF1) |

#### 6.10.2.4.1.7a.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 64   |
|             | Max number of DPDCH data bits/radio frame | 600  |
|             | Puncturing Limit                          | 0.96 |

#### 6.10.2.4.1.7a.2 Downlink

#### 6.10.2.4.1.7a.2.1 Transport channel parameters

#### 6.10.2.4.1.7a.2.1.1 Transport channel parameters for Conversational / speech / DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB    | RAB subflow #1        | RAB subflow #2 |
|--------------|----------------------|-----------------------|----------------|
| RLC          | Logical channel type | DTCH                  |                |
|              | RLC mode             | TM                    | TM             |
|              | Payload sizes, bit   | 0, 39, 42, 55, 58, 61 | 53, 63, 76, 87 |
|              | Max data rate, bps   | 7 400                 |                |
|              | TrD PDU header, bit  | 0                     |                |
| MAC          | MAC header, bit      | 0                     |                |
|              | MAC multiplexing     | N/A                   |                |
| Layer 1      | TrCH type            | DCH                   | DCH            |
|              | TB sizes, bit        | 0, 39, 42, 55, 58, 61 | 53, 63, 76, 87 |



|                                                                                                                                                                                   |                                             |           |              |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|--------------|------------|
|                                                                                                                                                                                   | TFS (note 1)                                | TF0, bits | 1x0 (note 2) | 0x87       |
|                                                                                                                                                                                   |                                             | TF1, bits | 1x39         | 1x53       |
|                                                                                                                                                                                   |                                             | TF2, bits | 1x42         | 1x63       |
|                                                                                                                                                                                   |                                             | TF3, bits | 1x55         | 1x76       |
|                                                                                                                                                                                   |                                             | TF4, bits | 1x58         | 1x87       |
|                                                                                                                                                                                   |                                             | TF5, bits | 1x61         | N/A        |
|                                                                                                                                                                                   | TTI, ms                                     |           | 20           | 20         |
|                                                                                                                                                                                   | Coding type                                 |           | CC 1/3       | CC 1/3     |
|                                                                                                                                                                                   | CRC, bit                                    |           | 12           | N/A        |
|                                                                                                                                                                                   | Max number of bits/TTI after channel coding |           | 243          | 285        |
|                                                                                                                                                                                   | RM attribute                                |           | 180 to 220   | 170 to 210 |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).                                                     |                                             |           |              |            |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB #1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                             |           |              |            |

#### 6.10.2.4.1.7a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.7a.2.1.3 TFCS

|           |                                                                                                                                                                                                                                                        |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                     |
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, TF4, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, TF4, TF1) |

#### 6.10.2.4.1.7a.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 128   |
|               | DPCCH            | Number of TFCI bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 34    |
|               |                  | Number of data bits/frame | 510   |

#### 6.10.2.4.1.8 Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.2.4.1.8.1 Uplink

#### 6.10.2.4.1.8.1.1 Transport channel parameters

#### 6.10.2.4.1.8.1.1.1 Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB

| Higher layer | RAB/Signalling RB    |           | RAB subflow #1          | RAB subflow #2 | RAB subflow #3 |
|--------------|----------------------|-----------|-------------------------|----------------|----------------|
| RLC          | Logical channel type |           | DTCH                    |                |                |
|              | RLC mode             |           | TM                      | TM             | TM             |
|              | Payload sizes, bit   |           | 39, 58 (alt. 0, 39, 58) | 76             | 60             |
|              | Max data rate, bps   |           | 6700                    |                |                |
|              | TrD PDU header, bit  |           | 0                       |                |                |
| MAC          | MAC header, bit      |           | 0                       |                |                |
|              | MAC multiplexing     |           | N/A                     |                |                |
| Layer 1      | TrCH type            |           | DCH                     | DCH            | DCH            |
|              | TB sizes, bit        |           | 39, 58 (alt. 0, 39, 58) | 76             | 60             |
|              | TFS (note 1)         | TF0, bits | 0x58 (alt. 1x0) (note)  | 0x76           | 0x60           |
|              |                      | TF1, bits | 1x39                    | 1x76           | N/A            |
|              |                      | TF2, bits | 1x58                    | N/A            | N/A            |

|                                                                                                                                                                                                                            |                                                             |            |            |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------|------------|------------|
|                                                                                                                                                                                                                            | TTI, ms                                                     | 20         | 20         | 20         |
|                                                                                                                                                                                                                            | Coding type                                                 | CC 1/3     | CC 1/3     | CC 1/2     |
|                                                                                                                                                                                                                            | CRC, bit                                                    | 12         | N/A        | N/A        |
|                                                                                                                                                                                                                            | Max number of bits/TTI after channel coding                 | 234        | 252        | 0          |
|                                                                                                                                                                                                                            | Uplink: Max number of bits/radio frame before rate matching | 117        | 126        | 0          |
|                                                                                                                                                                                                                            | RM attribute                                                | 180 to 220 | 170 to 210 | 215 to 256 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clauses 4.2.1.1 in 3GPP TS 25.212 [14]). |                                                             |            |            |            |

#### 6.10.2.4.1.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.8.1.1.3 TFCS

|           |                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

#### 6.10.2.4.1.8.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 64   |
|             | Max number of DPDCH data bits/radio frame | 600  |
|             | Puncturing Limit                          | 0.96 |

#### 6.10.2.4.1.8.2 Downlink

#### 6.10.2.4.1.8.2.1 Transport channel parameters

#### 6.10.2.4.1.8.2.1.1 Transport channel parameters for Conversational / speech / DL:6.7 kbps / CS RAB

| Higher layer | RAB/Signalling RB                                                                                                                                                                        |           | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|----------------|----------------|
| RLC          | Logical channel type                                                                                                                                                                     |           | DTCH           |                |                |
|              | RLC mode                                                                                                                                                                                 |           | TM             | TM             | TM             |
|              | Payload sizes, bit                                                                                                                                                                       |           | 0<br>39<br>58  | 76             | 60             |
|              | Max data rate, bps                                                                                                                                                                       |           | 6700           |                |                |
|              | TrD PDU header, bit                                                                                                                                                                      |           | 0              |                |                |
|              | MAC header, bit                                                                                                                                                                          |           | 0              |                |                |
| MAC          | MAC multiplexing                                                                                                                                                                         |           | N/A            |                |                |
|              | TrCH type                                                                                                                                                                                |           | DCH            | DCH            | DCH            |
| Layer 1      | TB sizes, bit                                                                                                                                                                            |           | 0<br>39<br>58  | 76             | 60             |
|              | TFS (note 1)                                                                                                                                                                             | TF0, bits | 1x0 (note 2)   | 0x76           | 0x60           |
|              |                                                                                                                                                                                          | TF1, bits | 1x39           | 1x76           | N/A            |
|              |                                                                                                                                                                                          | TF2, bits | 1x58           | N/A            | N/A            |
|              | TTI, ms                                                                                                                                                                                  |           | 20             | 20             | 20             |
|              | Coding type                                                                                                                                                                              |           | CC 1/3         | CC 1/3         | CC 1/2         |
|              | CRC, bit                                                                                                                                                                                 |           | 12             | N/A            | N/A            |
|              | Max number of bits/TTI after channel coding                                                                                                                                              |           | 234            | 252            | 0              |
|              | RM attribute                                                                                                                                                                             |           | 180 to 220     | 170 to 210     | 215 to 256     |
|              | NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).                                                            |           |                |                |                |
|              | NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |           |                |                |                |

## 6.10.2.4.1.8.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.8.2.1.3 TFCS

|           |                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

## 6.10.2.4.1.8.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 128   |
|               | DPCCH            | Number of TFCI bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 34    |
|               |                  | Number of data bits/frame | 510   |

## 6.10.2.4.1.9 Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.9.1 Uplink

## 6.10.2.4.1.9.1.1 Transport channel parameters

## 6.10.2.4.1.9.1.1.1 Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB

| Higher layer | RAB/Signalling RB                                                                                                                                                                                                  |           | RAB subflow #1          | RAB subflow #2 | RAB subflow #3 |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|----------------|----------------|
| RLC          | Logical channel type                                                                                                                                                                                               |           | DTCH                    |                |                |
|              | RLC mode                                                                                                                                                                                                           |           | TM                      | TM             | TM             |
|              | Payload sizes, bit                                                                                                                                                                                                 |           | 39, 55 (alt. 0, 39, 55) | 63             | 60             |
|              | Max data rate, bps                                                                                                                                                                                                 |           | 5900                    |                |                |
|              | TrD PDU header, bit                                                                                                                                                                                                |           | 0                       |                |                |
| MAC          | MAC header, bit                                                                                                                                                                                                    |           | 0                       |                |                |
|              | MAC multiplexing                                                                                                                                                                                                   |           | N/A                     |                |                |
| Layer 1      | TrCH type                                                                                                                                                                                                          |           | DCH                     | DCH            | DCH            |
|              | TB sizes, bit                                                                                                                                                                                                      |           | 39, 55 (alt. 0, 39, 55) | 63             | 60             |
|              | TFS                                                                                                                                                                                                                | TF0, bits | 0x55 (alt. 1x0) (note)  | 0x63           | 0x60           |
|              |                                                                                                                                                                                                                    | TF1, bits | 1x39                    | 1x63           | N/A            |
|              |                                                                                                                                                                                                                    | TF2, bits | 1x55                    | N/A            | N/A            |
|              | TTI, ms                                                                                                                                                                                                            |           | 20                      | 20             | 20             |
|              | Coding type                                                                                                                                                                                                        |           | CC 1/3                  | CC 1/3         | CC 1/2         |
|              | CRC, bit                                                                                                                                                                                                           |           | 12                      | N/A            | N/A            |
|              | Max number of bits/TTI after channel coding                                                                                                                                                                        |           | 225                     | 213            | 0              |
|              | Uplink: Max number of bits/radio frame before rate matching                                                                                                                                                        |           | 113                     | 107            | 0              |
|              | RM attribute                                                                                                                                                                                                       |           | 180 to 220              | 170 to 210     | 215 to 256     |
| NOTE:        | In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBIs are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |           |                         |                |                |

## 6.10.2.4.1.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.9.1.1.3 TFCS

|           |                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

## 6.10.2.4.1.9.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 64   |
|             | Max number of DPDCH data bits/radio frame | 600  |
|             | Puncturing Limit                          | 0.96 |

## 6.10.2.4.1.9.2 Downlink

## 6.10.2.4.1.9.2.1 Transport channel parameters

## 6.10.2.4.1.9.2.1.1 Transport channel parameters for Conversational / speech / DL:5.9 kbps / CS RAB

| Higher layer | RAB/Signalling RB                                                                                                                                                                        |           | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------|----------------|----------------|
| RLC          | Logical channel type                                                                                                                                                                     |           | DTCH           |                |                |
|              | RLC mode                                                                                                                                                                                 |           | TM             | TM             | TM             |
|              | Payload sizes, bit                                                                                                                                                                       |           | 0<br>39<br>55  | 63             | 60             |
|              | Max data rate, bps                                                                                                                                                                       |           | 5900           |                |                |
|              | TrD PDU header, bit                                                                                                                                                                      |           | 0              |                |                |
| MAC          | MAC header, bit                                                                                                                                                                          |           | 0              |                |                |
|              | MAC multiplexing                                                                                                                                                                         |           | N/A            |                |                |
| Layer 1      | TrCH type                                                                                                                                                                                |           | DCH            | DCH            | DCH            |
|              | TB sizes, bit                                                                                                                                                                            |           | 0<br>39<br>55  | 63             | 60             |
|              | TFS (note 1)                                                                                                                                                                             | TF0, bits | 1x0 (note 2)   | 0x63           | 0x60           |
|              |                                                                                                                                                                                          | TF1, bits | 1x39           | 1x63           | N/A            |
|              |                                                                                                                                                                                          | TF2, bits | 1x55           | N/A            | N/A            |
|              | TTI, ms                                                                                                                                                                                  |           | 20             | 20             | 20             |
|              | Coding type                                                                                                                                                                              |           | CC 1/3         | CC 1/3         | CC 1/2         |
|              | CRC, bit                                                                                                                                                                                 |           | 12             | N/A            | N/A            |
|              | Max number of bits/TTI after channel coding                                                                                                                                              |           | 225            | 213            | 0              |
|              | RM attribute                                                                                                                                                                             |           | 180 to 220     | 170 to 210     | 215 to 256     |
|              | NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).                                                            |           |                |                |                |
|              | NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |           |                |                |                |

## 6.10.2.4.1.9.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.9.2.1.3 TFCS

|           |                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

## 6.10.2.4.1.9.2.2 Physical channel parameters

|               |                                |       |
|---------------|--------------------------------|-------|
| DPCH Downlink | DTX position                   | Fixed |
|               | Spreading factor               | 256   |
|               | DPDCH Number of TFCI bits/slot | 0     |

|  |       |                           |     |
|--|-------|---------------------------|-----|
|  | DPDCH | Number of TPC bits/slot   | 2   |
|  |       | Number of Pilot bits/slot | 2   |
|  |       | Number of data bits/slot  | 16  |
|  |       | Number of data bits/frame | 240 |

6.10.2.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.10.1 Uplink

6.10.2.4.1.10.1.1 Transport channel parameters

6.10.2.4.1.10.1.1 Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB

| Higher layer | RAB/Signalling RB                                                                                                                                                                                                   |            | RAB subflow #1          | RAB subflow #2 | RAB subflow #3 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|----------------|----------------|
| RLC          | Logical channel type                                                                                                                                                                                                |            | DTCH                    |                |                |
|              | RLC mode                                                                                                                                                                                                            |            | TM                      | TM             | TM             |
|              | Payload sizes, bit                                                                                                                                                                                                  |            | 39, 49 (alt. 0, 39, 49) | 54             | 60             |
|              | Max data rate, bps                                                                                                                                                                                                  |            | 4750                    |                |                |
|              | TrD PDU header, bit                                                                                                                                                                                                 |            | 0                       |                |                |
| MAC          | MAC header, bit                                                                                                                                                                                                     |            | 0                       |                |                |
|              | MAC multiplexing                                                                                                                                                                                                    |            | N/A                     |                |                |
| Layer 1      | TrCH type                                                                                                                                                                                                           |            | DCH                     | DCH            | DCH            |
|              | TB sizes, bit                                                                                                                                                                                                       |            | 39, 49 (alt. 0, 39, 49) | 54             | 60             |
|              | TFS                                                                                                                                                                                                                 | TF0, bits  | 0x49 (alt. 1x0) (note)  | 0x54           | 0x60           |
|              |                                                                                                                                                                                                                     | TF1, bits  | 1x39                    | 1x54           | N/A            |
|              |                                                                                                                                                                                                                     | TF2, bits  | 1x49                    | N/A            | N/A            |
|              | TTI, ms                                                                                                                                                                                                             |            | 20                      | 20             | 20             |
|              | Coding type                                                                                                                                                                                                         |            | CC 1/3                  | CC 1/3         | CC 1/2         |
|              | CRC, bit                                                                                                                                                                                                            |            | 12                      | 12             | N/A            |
|              | Max number of bits/TTI after channel coding                                                                                                                                                                         |            | 207                     | 186            | 0              |
|              | Uplink: Max number of bits/radio frame before rate matching                                                                                                                                                         |            | 104                     | 93             | 0              |
| RM attribute |                                                                                                                                                                                                                     | 180 to 220 | 170 to 210              | 215 to 256     |                |
| NOTE:        | In case of usign this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |            |                         |                |                |

6.10.2.4.1.10.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.10.1.1.3 TFCS

|           |                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.10.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 128  |
|             | Max number of DPDCH data bits/radio frame | 300  |
|             | Puncturing Limit                          | 0.72 |

## 6.10.2.4.1.10.2 Downlink

## 6.10.2.4.1.10.2.1 Transport channel parameters

## 6.10.2.4.1.10.2.1.1 Transport channel parameters for Conversational / speech / DL:5.15 kbps / CS RAB

| Higher layer                                                                                                                                                                             | RAB/Signalling RB                           |           | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|----------------|----------------|----------------|
| RLC                                                                                                                                                                                      | Logical channel type                        |           | DTCH           |                |                |
|                                                                                                                                                                                          | RLC mode                                    |           | TM             | TM             | TM             |
|                                                                                                                                                                                          | Payload sizes, bit                          |           | 0<br>39<br>49  | 54             | 60             |
|                                                                                                                                                                                          | Max data rate, bps                          |           | 5150           |                |                |
|                                                                                                                                                                                          | TrD PDU header, bit                         |           | 0              |                |                |
| MAC                                                                                                                                                                                      | MAC header, bit                             |           | 0              |                |                |
|                                                                                                                                                                                          | MAC multiplexing                            |           | N/A            |                |                |
| Layer 1                                                                                                                                                                                  | TrCH type                                   |           | DCH            | DCH            | DCH            |
|                                                                                                                                                                                          | TB sizes, bit                               |           | 0<br>39<br>49  | 54             | 60             |
|                                                                                                                                                                                          | TFS (note 1)                                | TF0, bits | 1x0 (note 2)   | 0x54           | 0x60           |
|                                                                                                                                                                                          |                                             | TF1, bits | 1x39           | 1x54           | N/A            |
|                                                                                                                                                                                          |                                             | TF2, bits | 1x49           | N/A            | N/A            |
|                                                                                                                                                                                          | TTI, ms                                     |           | 20             | 20             | 20             |
|                                                                                                                                                                                          | Coding type                                 |           | CC 1/3         | CC 1/3         | CC 1/2         |
|                                                                                                                                                                                          | CRC, bit                                    |           | 12             | N/A            | N/A            |
|                                                                                                                                                                                          | Max number of bits/TTI after channel coding |           | 207            | 186            | 0              |
|                                                                                                                                                                                          | RM attribute                                |           | 180 to 220     | 170 to 210     | 215 to 256     |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).                                                            |                                             |           |                |                |                |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                             |           |                |                |                |

## 6.10.2.4.1.10.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.10.2.1.3 TFCS

|           |                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

## 6.10.2.4.1.10.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 256   |
|               | DPCCH            | Number of TFCI bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 14    |
|               |                  | Number of data bits/frame | 210   |

6.10.2.4.1.11 Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.11.1 Uplink

6.10.2.4.1.11.1.1 Transport channel parameters

6.10.2.4.1.11.1.1.1 Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                           | RAB subflow #1          | RAB subflow #2 | RAB subflow #3 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------|----------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                        | DTCH                    |                |                |
|                                                                                                                                                                                                                           | RLC mode                                                    | TM                      | TM             | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                          | 39, 42 (alt. 0, 39, 42) | 53             | 60             |
|                                                                                                                                                                                                                           | Max data rate, bps                                          | 4750                    |                |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                         | 0                       |                |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                             | 0                       |                |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                            | N/A                     |                |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                                   | DCH                     | DCH            | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                               | 39, 42 (alt. 0, 39, 42) | 53             | 60             |
|                                                                                                                                                                                                                           | TFS                                                         | 0x42 (alt. 1x0) (note)  | 0x53           | 0x60           |
|                                                                                                                                                                                                                           |                                                             |                         |                |                |
|                                                                                                                                                                                                                           |                                                             |                         |                |                |
|                                                                                                                                                                                                                           | TF0, bits                                                   | 1x39                    | 1x53           | N/A            |
|                                                                                                                                                                                                                           | TF1, bits                                                   | 1x42                    | N/A            | N/A            |
|                                                                                                                                                                                                                           | TF2, bits                                                   |                         |                |                |
|                                                                                                                                                                                                                           | TTI, ms                                                     | 20                      | 20             | 20             |
|                                                                                                                                                                                                                           | Coding type                                                 | CC 1/3                  | CC 1/3         | CC 1/2         |
|                                                                                                                                                                                                                           | CRC, bit                                                    | 12                      | N/A            | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding                 | 186                     | 183            | 0              |
|                                                                                                                                                                                                                           | Uplink: Max number of bits/radio frame before rate matching | 93                      | 92             | 0              |
|                                                                                                                                                                                                                           | RM attribute                                                | 180 to 220              | 170 to 210     | 215 to 256     |
| NOTE: In case of usign this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                                             |                         |                |                |

6.10.2.4.1.11.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.11.1.1.3 TFCS

|           |                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

6.10.2.4.1.11.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 128  |
|             | Max number of DPDCH data bits/radio frame | 300  |
|             | Puncturing Limit                          | 0.76 |

6.10.2.4.1.11.2 Downlink

6.10.2.4.1.11.2.1 Transport channel parameters

6.10.2.4.1.11.2.1.1 Transport channel parameters for Conversational / speech / DL:4.75 kbps / CS RAB

| Higher layer | RAB/Signalling RB    | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|--------------|----------------------|----------------|----------------|----------------|
| RLC          | Logical channel type | DTCH           |                |                |
|              | RLC mode             | TM             | TM             | TM             |

|                                                                                                                                                                                          |                                             |               |              |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|--------------|------------|
|                                                                                                                                                                                          | Payload sizes, bit                          | 0<br>39<br>42 | 53           | 60         |
|                                                                                                                                                                                          | Max data rate, bps                          | 4750          |              |            |
|                                                                                                                                                                                          | TrD PDU header, bit                         | 0             |              |            |
| MAC                                                                                                                                                                                      | MAC header, bit                             | 0             |              |            |
|                                                                                                                                                                                          | MAC multiplexing                            | N/A           |              |            |
| Layer 1                                                                                                                                                                                  | TrCH type                                   | DCH           | DCH          | DCH        |
|                                                                                                                                                                                          | TB sizes, bit                               | 0<br>39<br>42 | 53           | 60         |
|                                                                                                                                                                                          | TFS (note 1)                                | TF0, bits     | 1x0 (note 2) | 0x53       |
|                                                                                                                                                                                          |                                             | TF1, bits     | 1x39         | 1x53       |
|                                                                                                                                                                                          |                                             | TF2, bits     | 1x42         | N/A        |
|                                                                                                                                                                                          | TTI, ms                                     | 20            | 20           | 20         |
|                                                                                                                                                                                          | Coding type                                 | CC 1/3        | CC 1/3       | CC 1/2     |
|                                                                                                                                                                                          | CRC, bit                                    | 12            | N/A          | N/A        |
|                                                                                                                                                                                          | Max number of bits/TTI after channel coding | 186           | 183          | 0          |
|                                                                                                                                                                                          | RM attribute                                | 180 to 220    | 170 to 210   | 215 to 256 |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).                                                            |                                             |               |              |            |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                             |               |              |            |

#### 6.10.2.4.1.11.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.11.2.1.3 TFCS

|           |                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF0, TF1) |

#### 6.10.2.4.1.11.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 256   |
|               | DPCCH            | Number of TFCI bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 14    |
|               |                  | Number of data bits/frame | 210   |



6.10.2.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps  
SRBs for DCCH

6.10.2.4.1.12.1 Uplink

6.10.2.4.1.12.1.1 Transport channel parameters

6.10.2.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB

|              |                                                             |            |
|--------------|-------------------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                           | RAB        |
| RLC          | Logical channel type                                        | DTCH       |
|              | RLC mode                                                    | TM         |
|              | Payload sizes, bit                                          | 576        |
|              | Max data rate, bps                                          | 28 800     |
|              | TrD PDU header, bit                                         | 0          |
| MAC          | MAC header, bit                                             | 0          |
|              | MAC multiplexing                                            | N/A        |
| Layer 1      | TrCH type                                                   | DCH        |
|              | TB sizes, bit                                               | 576        |
|              | TFS                                                         | TF0, bits  |
|              |                                                             | TF1, bits  |
|              |                                                             | TF2, bits  |
|              | TTI, ms                                                     | 40         |
|              | Coding type                                                 | TC         |
|              | CRC, bit                                                    | 16         |
|              | Max number of bits/TTI after channel coding                 | 3 564      |
|              | Uplink: Max number of bits/radio frame before rate matching | 891        |
|              | RM attribute                                                | 160 to 200 |

6.10.2.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.12.1.1.3 TFCS

|           |                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                |
| TFCS      | (28.8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

6.10.2.4.1.12.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 32    |
|             | Max number of DPDCH data bits/radio frame | 1 200 |
|             | Puncturing Limit                          | 0.92  |

6.10.2.4.1.12.2 Downlink

6.10.2.4.1.12.2.1 Transport channel parameters

6.10.2.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB

|              |                      |           |
|--------------|----------------------|-----------|
| Higher layer | RAB/Signalling RB    | RAB       |
| RLC          | Logical channel type | DTCH      |
|              | RLC mode             | TM        |
|              | Payload sizes, bit   | 576       |
|              | Max data rate, bps   | 28 800    |
|              | TrD PDU header, bit  | 0         |
| MAC          | MAC header, bit      | 0         |
|              | MAC multiplexing     | N/A       |
| Layer 1      | TrCH type            | DCH       |
|              | TB sizes, bit        | 576       |
|              | TFS                  | TF0, bits |
|              |                      | TF1, bits |

|  |                                             |            |
|--|---------------------------------------------|------------|
|  | TF2, bits                                   | 2x576      |
|  | TTI, ms                                     | 40         |
|  | Coding type                                 | TC         |
|  | CRC, bit                                    | 16         |
|  | Max number of bits/TTI after channel coding | 3 564      |
|  | RM attribute                                | 160 to 200 |

#### 6.10.2.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.12.2.1.3 TFCS

|           |                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                |
| TFCS      | (28.8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

#### 6.10.2.4.1.12.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 64       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 60       |
|               |                  | Number of data bits/frame | 900      |

#### 6.10.2.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.2.4.1.13.1 Uplink

##### 6.10.2.4.1.13.1.1 Transport channel parameters

##### 6.10.2.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

|              |                                                             |           |                   |
|--------------|-------------------------------------------------------------|-----------|-------------------|
| Higher layer | RAB/Signalling RB                                           |           | RAB               |
| RLC          | Logical channel type                                        |           | DTCH              |
|              | RLC mode                                                    |           | TM                |
|              | Payload sizes, bit                                          |           | 640               |
|              | Max data rate, bps                                          |           | 64 000            |
|              | TrD PDU header, bit                                         |           | 0                 |
| MAC          | MAC header, bit                                             |           | 0                 |
|              | MAC multiplexing                                            |           | N/A               |
| Layer 1      | TrCH type                                                   |           | DCH               |
|              | TB sizes, bit                                               |           | 640               |
|              | TFS                                                         | TF0, bits | 0x640             |
|              |                                                             | TF1, bits | 2x640(alt. 4x640) |
|              | TTI, ms                                                     |           | 20(alt. 40)       |
|              | Coding type                                                 |           | TC                |
|              | CRC, bit                                                    |           | 16                |
|              | Max number of bits/TTI after channel coding                 |           | 3 948(alt. 7 884) |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 1 974(alt. 1 971) |
|              | RM attribute                                                |           | 150 to 195        |

#### 6.10.2.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.13.1.1.3 TFCS

|           |                                                                    |
|-----------|--------------------------------------------------------------------|
| TFCS size | 4                                                                  |
| TFCS      | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.10.2.4.1.13.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.88  |

## 6.10.2.4.1.13.2 Downlink

## 6.10.2.4.1.13.2.1 Transport channel parameters

## 6.10.2.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

|              |                                             |           |                   |
|--------------|---------------------------------------------|-----------|-------------------|
| Higher layer | RAB/Signalling RB                           |           | RAB               |
| RLC          | Logical channel type                        |           | DTCH              |
|              | RLC mode                                    |           | TM                |
|              | Payload sizes, bit                          |           | 640               |
|              | Max data rate, bps                          |           | 64 000            |
|              | TrD PDU header, bit                         |           | 0                 |
| MAC          | MAC header, bit                             |           | 0                 |
|              | MAC multiplexing                            |           | N/A               |
| Layer 1      | TrCH type                                   |           | DCH               |
|              | TB sizes, bit                               |           | 640               |
|              | TFS                                         | TF0, bits | 0x640             |
|              |                                             | TF1, bits | 2x640(alt. 4x640) |
|              | TTI, ms                                     |           | 20(alt. 40)       |
|              | Coding type                                 |           | TC                |
|              | CRC, bit                                    |           | 16                |
|              | Max number of bits/TTI after channel coding |           | 3 948(alt. 7 884) |
|              | RM attribute                                |           | 150 to 195        |

## 6.10.2.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.13.2.1.3 TFCS

|           |                                                                    |
|-----------|--------------------------------------------------------------------|
| TFCS size | 4                                                                  |
| TFCS      | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.10.2.4.1.13.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

6.10.2.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.14.1 Uplink

6.10.2.4.1.14.1.1 Transport channel parameters

6.10.2.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB

|              |                                                             |                    |
|--------------|-------------------------------------------------------------|--------------------|
| Higher layer | RAB/Signalling RB                                           | RAB                |
| RLC          | Logical channel type                                        | DTCH               |
|              | RLC mode                                                    | TM                 |
|              | Payload sizes, bit                                          | 640                |
|              | Max data rate, bps                                          | 32 000             |
|              | TrD PDU header, bit                                         | 0                  |
| MAC          | MAC header, bit                                             | 0                  |
|              | MAC multiplexing                                            | N/A                |
| Layer 1      | TrCH type                                                   | DCH                |
|              | TB sizes, bit                                               | 640                |
|              | TFS                                                         | TF0, bits          |
|              |                                                             | TF1, bits          |
|              |                                                             | 0x640              |
|              |                                                             | 1x640(alt. 2x640)  |
|              | TTI, ms                                                     | 20(alt. 40)        |
|              | Coding type                                                 | TC                 |
|              | CRC, bit                                                    | 16                 |
|              | Max number of bits/TTI after channel coding                 | 1 980 (alt. 3 948) |
|              | Uplink: Max number of bits/radio frame before rate matching | 990 (alt. 987)     |
|              | RM attribute                                                | 165 to 210         |

6.10.2.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.13.1.1.3 TFCS

|           |                                                                    |
|-----------|--------------------------------------------------------------------|
| TFCS size | 4                                                                  |
| TFCS      | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.10.2.4.1.14.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 32    |
|             | Max number of DPDCH data bits/radio frame | 1 200 |
|             | Puncturing Limit                          | 0.80  |

6.10.2.4.1.14.2 Downlink

6.10.2.4.1.14.2.1 Transport channel parameters

6.10.2.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB

|              |                      |                   |
|--------------|----------------------|-------------------|
| Higher layer | RAB/Signalling RB    | RAB               |
| RLC          | Logical channel type | DTCH              |
|              | RLC mode             | TM                |
|              | Payload sizes, bit   | 640               |
|              | Max data rate, bps   | 32 000            |
|              | TrD PDU header, bit  | 0                 |
| MAC          | MAC header, bit      | 0                 |
|              | MAC multiplexing     | N/A               |
| Layer 1      | TrCH type            | DCH               |
|              | TB sizes, bit        | 640               |
|              | TFS                  | TF0, bits         |
|              |                      | TF1, bits         |
|              |                      | 0x640             |
|              |                      | 1x640(alt. 2x640) |
|              | TTI, ms              | 20(alt. 40)       |
|              | Coding type          | TC                |
|              | CRC, bit             | 16                |

|  |                                             |                   |
|--|---------------------------------------------|-------------------|
|  | Max number of bits/TTI after channel coding | 1 980(alt. 3 948) |
|  | RM attribute                                | 165 to 210        |

#### 6.10.2.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.14.2.1.3 TFCS

|           |                                                                    |
|-----------|--------------------------------------------------------------------|
| TFCS size | 4                                                                  |
| TFCS      | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

#### 6.10.2.4.1.14.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 64       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 60       |
|               |                  | Number of data bits/frame | 900      |

#### 6.10.2.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.2.4.1.15.1 Uplink

#### 6.10.2.4.1.15.1.1 Transport channel parameters

#### 6.10.2.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB

|              |                                                             |           |            |
|--------------|-------------------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                           |           | RAB        |
| RLC          | Logical channel type                                        |           | DTCH       |
|              | RLC mode                                                    |           | TM         |
|              | Payload sizes, bit                                          |           | 576        |
|              | Max data rate, bps                                          |           | 14 400     |
|              | TrD PDU header, bit                                         |           | 0          |
| MAC          | MAC header, bit                                             |           | 0          |
|              | MAC multiplexing                                            |           | N/A        |
| Layer 1      | TrCH type                                                   |           | DCH        |
|              | TB sizes, bit                                               |           | 576        |
|              | TFS                                                         | TF0, bits | 0x576      |
|              |                                                             | TF1, bits | 1x576      |
|              | TTI, ms                                                     |           | 40         |
|              | Coding type                                                 |           | TC         |
|              | CRC, bit                                                    |           | 16         |
|              | Max number of bits/TTI after channel coding                 |           | 1 788      |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 447        |
|              | RM attribute                                                |           | 145 to 185 |

#### 6.10.2.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.15.1.1.3 TFCS

|           |                                                                      |
|-----------|----------------------------------------------------------------------|
| TFCS size | 4                                                                    |
| TFCS      | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

#### 6.10.2.4.1.15.1.2 Physical channel parameters

|             |                      |    |
|-------------|----------------------|----|
| DPCH Uplink | Min spreading factor | 64 |
|-------------|----------------------|----|

|  |                                           |      |
|--|-------------------------------------------|------|
|  | Max number of DPDCH data bits/radio frame | 600  |
|  | Puncturing Limit                          | 0.88 |

## 6.10.2.4.1.15.2 Downlink

## 6.10.2.4.1.15.2.1 Transport channel parameters

## 6.10.2.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB

|              |                                             |           |            |
|--------------|---------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                           |           | RAB        |
| RLC          | Logical channel type                        |           | DTCH       |
|              | RLC mode                                    |           | TM         |
|              | Payload sizes, bit                          |           | 576        |
|              | Max data rate, bps                          |           | 14 400     |
|              | TrD PDU header, bit                         |           | 0          |
| MAC          | MAC header, bit                             |           | 0          |
|              | MAC multiplexing                            |           | N/A        |
| Layer 1      | TrCH type                                   |           | DCH        |
|              | TB sizes, bit                               |           | 576        |
|              | TFS                                         | TF0, bits | 0x576      |
|              |                                             | TF1, bits | 1x576      |
|              | TTI, ms                                     |           | 40         |
|              | Coding type                                 |           | TC         |
|              | CRC, bit                                    |           | 16         |
|              | Max number of bits/TTI after channel coding |           | 1 788      |
|              | RM attribute                                |           | 145 to 185 |

## 6.10.2.4.1.15.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.15.2.1.3 TFCS

|           |                                                                      |
|-----------|----------------------------------------------------------------------|
| TFCS size | 4                                                                    |
| TFCS      | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.10.2.4.1.15.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 128      |
|               | DPCCH            | Number of TFCI bits/slot  | 2        |
|               |                  | Number of TPC bits/slot   | 2        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 28       |
|               |                  | Number of data bits/frame | 420      |

## 6.10.2.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.16.1 Uplink

## 6.10.2.4.1.16.1.1 Transport channel parameters

## 6.10.2.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB

|              |                      |        |
|--------------|----------------------|--------|
| Higher layer | RAB/Signalling RB    | RAB    |
| RLC          | Logical channel type | DTCH   |
|              | RLC mode             | TM     |
|              | Payload sizes, bit   | 576    |
|              | Max data rate, bps   | 28 800 |
|              | TrD PDU header, bit  | 0      |
| MAC          | MAC header, bit      | 0      |
|              | MAC multiplexing     | N/A    |

|              |                                                             |            |       |
|--------------|-------------------------------------------------------------|------------|-------|
| Layer 1      | TrCH type                                                   |            | DCH   |
|              | TB sizes, bit                                               |            | 576   |
|              | TFS                                                         | TF0, bits  | 0x576 |
|              |                                                             | TF1, bits  | 1x576 |
|              |                                                             | TF2, bits  | 2x576 |
|              | TTI, ms                                                     |            | 40    |
|              | Coding type                                                 |            | TC    |
|              | CRC, bit                                                    |            | 16    |
|              | Max number of bits/TTI after channel coding                 |            | 3 564 |
|              | Uplink: Max number of bits/radio frame before rate matching |            | 891   |
| RM attribute |                                                             | 135 to 175 |       |

#### 6.10.2.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.16.1.1.3 TFCS

|           |                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                |
| TFCS      | (28.8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

#### 6.10.2.4.1.16.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 32    |
|             | Max number of DPDCH data bits/radio frame | 1 200 |
|             | Puncturing Limit                          | 0.96  |

#### 6.10.2.4.1.16.2 Downlink

#### 6.10.2.4.1.16.2.1 Transport channel parameters

#### 6.10.2.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB

|                                                                             |                                             |            |                         |
|-----------------------------------------------------------------------------|---------------------------------------------|------------|-------------------------|
| Higher layer                                                                | RAB/Signalling RB                           |            | RAB                     |
| RLC                                                                         | Logical channel type                        |            | DTCH                    |
|                                                                             | RLC mode                                    |            | TM                      |
|                                                                             | Payload sizes, bit                          |            | 576                     |
|                                                                             | Max data rate, bps                          |            | 28 800                  |
|                                                                             | TrD PDU header, bit                         |            | 0                       |
| MAC                                                                         | MAC header, bit                             |            | 0                       |
|                                                                             | MAC multiplexing                            |            | N/A                     |
| Layer 1                                                                     | TrCH type                                   |            | DCH                     |
|                                                                             | TB sizes, bit                               |            | 576                     |
|                                                                             | TFS                                         | TF0, bits  | 0x576 (alt. 1x0) (note) |
|                                                                             |                                             | TF1, bits  | 1x576                   |
|                                                                             |                                             | TF2, bits  | 2x576                   |
|                                                                             | TTI, ms                                     |            | 40                      |
|                                                                             | Coding type                                 |            | TC                      |
|                                                                             | CRC, bit                                    |            | 16                      |
|                                                                             | Max number of bits/TTI after channel coding |            | 3 564                   |
| RM attribute                                                                |                                             | 135 to 175 |                         |
| NOTE: Alternative 1x0 is used to have CRC present in all transport formats. |                                             |            |                         |

#### 6.10.2.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.16.2.1.3 TFCS

|           |                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                |
| TFCS      | (28.8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

## 6.10.2.4.1.16.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 64       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 60       |
|               |                  | Number of data bits/frame | 900      |

## 6.10.2.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.17.1 Uplink

## 6.10.2.4.1.17.1.1 Transport channel parameters

## 6.10.2.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

|              |                                                             |           |        |
|--------------|-------------------------------------------------------------|-----------|--------|
| Higher layer | RAB/Signalling RB                                           |           | RAB    |
| RLC          | Logical channel type                                        |           | DTCH   |
|              | RLC mode                                                    |           | TM     |
|              | Payload sizes, bit                                          |           | 576    |
|              | Max data rate, bps                                          |           | 57 600 |
|              | TrD PDU header, bit                                         |           | 0      |
| MAC          | MAC header, bit                                             |           | 0      |
|              | MAC multiplexing                                            |           | N/A    |
| Layer 1      | TrCH type                                                   |           | DCH    |
|              | TB sizes, bit                                               |           | 576    |
|              | TFS                                                         | TF0, bits | 0x576  |
|              |                                                             | TF1, bits | 1x576  |
|              |                                                             | TF2, bits | 2x576  |
|              |                                                             | TF3, bits | 3x576  |
|              |                                                             | TF4, bits | 4x576  |
|              | TTI, ms                                                     |           | 40     |
|              | Coding type                                                 |           | TC     |
|              | CRC, bit                                                    |           | 16     |
|              | Max number of bits/TTI after channel coding                 |           | 7 116  |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 1 779  |

## 6.10.2.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.17.1.1.3 TFCS

|           |                                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                  |
| TFCS      | (57.6 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

## 6.10.2.4.1.17.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.96  |



## 6.10.2.4.1.17.2 Downlink

## 6.10.2.4.1.17.2.1 Transport channel parameters

## 6.10.2.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

|              |                                             |           |            |
|--------------|---------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                           |           | RAB        |
| RLC          | Logical channel type                        |           | DTCH       |
|              | RLC mode                                    |           | TM         |
|              | Payload sizes, bit                          |           | 576        |
|              | Max data rate, bps                          |           | 57 600     |
|              | TrD PDU header, bit                         |           | 0          |
| MAC          | MAC header, bit                             |           | 0          |
|              | MAC multiplexing                            |           | N/A        |
| Layer 1      | TrCH type                                   |           | DCH        |
|              | TB sizes, bit                               |           | 576        |
|              | TFS                                         | TF0, bits | 0x576      |
|              |                                             | TF1, bits | 1x576      |
|              |                                             | TF2, bits | 2x576      |
|              |                                             | TF3, bits | 3x576      |
|              |                                             | TF4, bits | 4x576      |
|              | TTI, ms                                     |           | 40         |
|              | Coding type                                 |           | TC         |
|              | CRC, bit                                    |           | 16         |
|              | Max number of bits/TTI after channel coding |           | 7 116      |
|              | RM attribute                                |           | 125 to 165 |

## 6.10.2.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.17.2.1.3 TFCS

|           |                                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                  |
| TFCS      | (57.6 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

## 6.10.2.4.1.17.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

## 6.10.2.4.1.18 Void

## 6.10.2.4.1.19 Void

## 6.10.2.4.1.20 Void

## 6.10.2.4.1.21 Void

## 6.10.2.4.1.22 Void

## 6.10.2.4.1.23 Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.23.1 Uplink

## 6.10.2.4.1.23.1.1 Transport channel parameters

## 6.10.2.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

|              |                                                             |                    |
|--------------|-------------------------------------------------------------|--------------------|
| Higher layer | RAB/Signalling RB                                           | RAB                |
| RLC          | Logical channel type                                        | DTCH               |
|              | RLC mode                                                    | AM                 |
|              | Payload sizes, bit                                          | 320                |
|              | Max data rate, bps                                          | 32 000             |
|              | AMD PDU header, bit                                         | 16                 |
| MAC          | MAC header, bit                                             | 0                  |
|              | MAC multiplexing                                            | N/A                |
| Layer 1      | TrCH type                                                   | DCH                |
|              | TB sizes, bit                                               | 336                |
|              | TFS                                                         | TF0, bits          |
|              |                                                             | TF1, bits          |
|              |                                                             | TF2, bits          |
|              | TTI, ms                                                     | 20 (alt. 10)       |
|              | Coding type                                                 | TC (alt. CC 1/3)   |
|              | CRC, bit                                                    | 16                 |
|              | Max number of bits/TTI after channel coding                 | 2 124 (alt. 1 080) |
|              | Uplink: Max number of bits/radio frame before rate matching | 1 062 (alt. 1 080) |
|              | RM attribute                                                | 135 to 175         |

## 6.10.2.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.23.1.1.3 TFCS

|           |                                                                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6 (alt. 4)                                                                                                                                              |
| TFCS      | (32 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)) |

## 6.10.2.4.1.23.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 32    |
|             | Max number of DPDCH data bits/radio frame | 1 200 |
|             | Puncturing Limit                          | 0.88  |

## 6.10.2.4.1.23.2 Downlink

## 6.10.2.4.1.23.2.1 Transport channel parameters

## 6.10.2.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

|              |                                             |                    |
|--------------|---------------------------------------------|--------------------|
| Higher layer | RAB/Signalling RB                           | RAB                |
| RLC          | Logical channel type                        | DTCH               |
|              | RLC mode                                    | AM                 |
|              | Payload sizes, bit                          | 320                |
|              | Max data rate, bps                          | 8 000              |
|              | AMD PDU header, bit                         | 16                 |
| MAC          | MAC header, bit                             | 0                  |
|              | MAC multiplexing                            | N/A                |
| Layer 1      | TrCH type                                   | DCH                |
|              | TB sizes, bit                               | 336                |
|              | TFS                                         | TF0, bits          |
|              |                                             | TF1, bits          |
|              | TTI, ms                                     | 40                 |
|              | Coding type                                 | TC (alt. CC 1/3)   |
|              | CRC, bit                                    | 16                 |
|              | Max number of bits/TTI after channel coding | 1 068 (alt. 1 080) |
|              | RM attribute                                | 135 to 175         |

## 6.10.2.4.1.23.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.23.2.1.3 TFCS

|           |                                                                   |
|-----------|-------------------------------------------------------------------|
| TFCS size | 4                                                                 |
| TFCS      | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.10.2.4.1.23.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 128      |
|               | DPCCH            | Number of TFCI bits/slot  | 2        |
|               |                  | Number of TPC bits/slot   | 2        |
|               |                  | Number of Pilot bits/slot | 4        |
|               | DPDCH            | Number of data bits/slot  | 32       |
|               |                  | Number of data bits/frame | 480      |

## 6.10.2.4.1.23a Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.23a.1 Uplink

## 6.10.2.4.1.23a.1.1 Transport channel parameters

## 6.10.2.4.1.23a.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

|              |                                                             |           |                    |
|--------------|-------------------------------------------------------------|-----------|--------------------|
| Higher layer | RAB/Signalling RB                                           |           | RAB                |
| RLC          | Logical channel type                                        |           | DTCH               |
|              | RLC mode                                                    |           | AM                 |
|              | Payload sizes, bit                                          |           | 320                |
|              | Max data rate, bps                                          |           | 8 000              |
|              | AMD PDU header, bit                                         |           | 16                 |
| MAC          | MAC header, bit                                             |           | 0                  |
|              | MAC multiplexing                                            |           | N/A                |
| Layer 1      | TrCH type                                                   |           | DCH                |
|              | TB sizes, bit                                               |           | 336                |
|              | TFS                                                         | TF0, bits | 0x336              |
|              |                                                             | TF1, bits | 1x336              |
|              | TTI, ms                                                     |           | 40                 |
|              | Coding type                                                 |           | CC 1/3 (alt. TC)   |
|              | CRC, bit                                                    |           | 16                 |
|              | Max number of bits/TTI after channel coding                 |           | 1 080 (alt. 1 068) |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 270 (alt. 267)     |
|              | RM attribute                                                |           | 135 to 175         |

## 6.10.2.4.1.23a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.23a.1.1.3 TFCS

|           |                                                                   |
|-----------|-------------------------------------------------------------------|
| TFCS size | 4                                                                 |
| TFCS      | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.10.2.4.1.23a.1.2 Physical channel parameters

|             |                                           |     |
|-------------|-------------------------------------------|-----|
| DPCH Uplink | Min spreading factor                      | 64  |
|             | Max number of DPDCH data bits/radio frame | 600 |
|             | Puncturing Limit                          | 1.0 |

## 6.10.2.4.1.23a.2 Downlink

## 6.10.2.4.1.23a.2.1 Transport channel parameters

## 6.10.2.4.1.23a.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

|              |                                             |           |                    |
|--------------|---------------------------------------------|-----------|--------------------|
| Higher layer | RAB/Signalling RB                           |           | RAB                |
| RLC          | Logical channel type                        |           | DTCH               |
|              | RLC mode                                    |           | AM                 |
|              | Payload sizes, bit                          |           | 320                |
|              | Max data rate, bps                          |           | 8 000              |
|              | AMD PDU header, bit                         |           | 16                 |
| MAC          | MAC header, bit                             |           | 0                  |
|              | MAC multiplexing                            |           | N/A                |
| Layer 1      | TrCH type                                   |           | DCH                |
|              | TB sizes, bit                               |           | 336                |
|              | TFS                                         | TF0, bits | 0x336              |
|              |                                             | TF1, bits | 1x336              |
|              | TTI, ms                                     |           | 40                 |
|              | Coding type                                 |           | CC 1/3 (alt. TC)   |
|              | CRC, bit                                    |           | 16                 |
|              | Max number of bits/TTI after channel coding |           | 1 080 (alt. 1 068) |
|              | RM attribute                                |           | 135 to 175         |

## 6.10.2.4.1.23a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.23a.2.1.3 TFCS

|           |                                                                   |
|-----------|-------------------------------------------------------------------|
| TFCS size | 4                                                                 |
| TFCS      | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.10.2.4.1.23a.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 128      |
|               | DPCCH            | Number of TFCI bits/slot  | 2        |
|               |                  | Number of TPC bits/slot   | 2        |
|               |                  | Number of Pilot bits/slot | 4        |
|               | DPDCH            | Number of data bits/slot  | 32       |
|               |                  | Number of data bits/frame | 480      |

## 6.10.2.4.1.23b Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.23b.1 Uplink

## 6.10.2.4.1.23b.1.1 Transport channel parameters

## 6.10.2.4.1.23b.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

|              |                      |           |        |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB    |           | RAB    |
| RLC          | Logical channel type |           | DTCH   |
|              | RLC mode             |           | AM     |
|              | Payload sizes, bit   |           | 320    |
|              | Max data rate, bps   |           | 16 000 |
|              | AMD PDU header, bit  |           | 16     |
| MAC          | MAC header, bit      |           | 0      |
|              | MAC multiplexing     |           | N/A    |
| Layer 1      | TrCH type            |           | DCH    |
|              | TB sizes, bit        |           | 336    |
|              | TFS                  | TF0, bits | 0x336  |
|              |                      | TF1, bits | 1x336  |

|  |                                                             |            |
|--|-------------------------------------------------------------|------------|
|  | TF2, bits                                                   | 2x336      |
|  | TTI, ms                                                     | 40         |
|  | Coding type                                                 | TC         |
|  | CRC, bit                                                    | 16         |
|  | Max number of bits/TTI after channel coding                 | 2 124      |
|  | Uplink: Max number of bits/radio frame before rate matching | 531        |
|  | RM attribute                                                | 135 to 175 |

#### 6.10.2.4.1.23b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.23b.1.1.3 TFCS

|           |                                                                                                |
|-----------|------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                              |
| TFCS      | (16 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

#### 6.10.2.4.1.23b.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 32    |
|             | Max number of DPDCH data bits/radio frame | 1 200 |
|             | Puncturing Limit                          | 1.0   |

#### 6.10.2.4.1.23b.2 Downlink

#### 6.10.2.4.1.23b.2.1 Transport channel parameters

##### 6.10.2.4.1.23b.2.1.1 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

|              |                                             |            |
|--------------|---------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                           | RAB        |
| RLC          | Logical channel type                        | DTCH       |
|              | RLC mode                                    | AM         |
|              | Payload sizes, bit                          | 320        |
|              | Max data rate, bps                          | 16 000     |
|              | AMD PDU header, bit                         | 16         |
| MAC          | MAC header, bit                             | 0          |
|              | MAC multiplexing                            | N/A        |
| Layer 1      | TrCH type                                   | DCH        |
|              | TB sizes, bit                               | 336        |
|              | TFS                                         | TF0, bits  |
|              |                                             | TF1, bits  |
|              |                                             | TF2, bits  |
|              |                                             | 2x336      |
|              | TTI, ms                                     | 40         |
|              | Coding type                                 | TC         |
|              | CRC, bit                                    | 16         |
|              | Max number of bits/TTI after channel coding | 2 124      |
|              | RM attribute                                | 135 to 175 |

#### 6.10.2.4.1.23b.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.23b.2.1.3 TFCS

|           |                                                                                                |
|-----------|------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                              |
| TFCS      | (16 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |

#### 6.10.2.4.1.23b.2.2 Physical channel parameters

|               |              |          |
|---------------|--------------|----------|
| DPCH Downlink | DTX position | Flexible |
|---------------|--------------|----------|

|  |                  |                           |     |
|--|------------------|---------------------------|-----|
|  | Spreading factor |                           | 128 |
|  | DPCCH            | Number of TFCl bits/slot  | 2   |
|  |                  | Number of TPC bits/slot   | 2   |
|  |                  | Number of Pilot bits/slot | 4   |
|  | DPDCH            | Number of data bits/slot  | 32  |
|  |                  | Number of data bits/frame | 480 |

6.10.2.4.1.23c Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.23c.1 Uplink

6.10.2.4.1.23c.1.1 Transport channel parameters

6.10.2.4.1.23c.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

|              |                                                             |           |            |
|--------------|-------------------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                           |           | RAB        |
| RLC          | Logical channel type                                        |           | DTCH       |
|              | RLC mode                                                    |           | AM         |
|              | Payload sizes, bit                                          |           | 320        |
|              | Max data rate, bps                                          |           | 32 000     |
|              | AMD PDU header, bit                                         |           | 16         |
| MAC          | MAC header, bit                                             |           | 0          |
|              | MAC multiplexing                                            |           | N/A        |
| Layer 1      | TrCH type                                                   |           | DCH        |
|              | TB sizes, bit                                               |           | 336        |
|              | TFS                                                         | TF0, bits | 0x336      |
|              |                                                             | TF1, bits | 1x336      |
|              |                                                             | TF2, bits | 2x336      |
|              |                                                             | TF3, bits | 3x336      |
|              |                                                             | TF4, bits | 4x336      |
|              | TTI, ms                                                     |           | 40         |
|              | Coding type                                                 |           | TC         |
|              | CRC, bit                                                    |           | 16         |
|              | Max number of bits/TTI after channel coding                 |           | 4 236      |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 1 059      |
|              | RM attribute                                                |           | 135 to 175 |

6.10.2.4.1.23c.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23c.1.1.3 TFCS

|           |                                                                                                                                         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                      |
| TFCS      | (32 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1),<br>(TF3,TF1), (TF4,TF1) |

6.10.2.4.1.23c.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 32    |
|             | Max number of DPDCH data bits/radio frame | 1 200 |
|             | Puncturing Limit                          | 0.88  |

6.10.2.4.1.23c.2 Downlink

6.10.2.4.1.23c.2.1 Transport channel parameters

6.10.2.4.1.23c.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

|              |                      |      |
|--------------|----------------------|------|
| Higher layer | RAB/Signalling RB    | RAB  |
| RLC          | Logical channel type | DTCH |

|         |                                             |            |
|---------|---------------------------------------------|------------|
|         | RLC mode                                    | AM         |
|         | Payload sizes, bit                          | 320        |
|         | Max data rate, bps                          | 32 000     |
|         | AMD PDU header, bit                         | 16         |
| MAC     | MAC header, bit                             | 0          |
|         | MAC multiplexing                            | N/A        |
| Layer 1 | TrCH type                                   | DCH        |
|         | TB sizes, bit                               | 336        |
|         | TFS                                         | TF0, bits  |
|         |                                             | TF1, bits  |
|         |                                             | TF2, bits  |
|         |                                             | TF3, bits  |
|         |                                             | TF4, bits  |
|         | TTI, ms                                     | 40         |
|         | Coding type                                 | TC         |
|         | CRC, bit                                    | 16         |
|         | Max number of bits/TTI after channel coding | 4 236      |
|         | RM attribute                                | 135 to 175 |

#### 6.10.2.4.1.23c.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.23c.2.1.3 TFCS

|           |                                                                                                                                         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                      |
| TFCS      | (32 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1),<br>(TF3,TF1), (TF4,TF1) |

#### 6.10.2.4.1.23c.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 64       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 60       |
|               |                  | Number of data bits/frame | 900      |

#### 6.10.2.4.1.23d Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.2.4.1.23d.1 Uplink

#### 6.10.2.4.1.23d.1.1 Transport channel parameters

#### 6.10.2.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

|              |                      |           |        |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB    |           | RAB    |
| RLC          | Logical channel type |           | DTCH   |
|              | RLC mode             |           | AM     |
|              | Payload sizes, bit   |           | 320    |
|              | Max data rate, bps   |           | 32 000 |
|              | AMD PDU header, bit  |           | 16     |
| MAC          | MAC header, bit      |           | 0      |
|              | MAC multiplexing     |           | N/A    |
| Layer 1      | TrCH type            |           | DCH    |
|              | TB sizes, bit        |           | 336    |
|              | TFS                  | TF0, bits | 0x336  |
|              |                      | TF1, bits | 1x336  |
|              |                      | TF2, bits | 2x336  |
|              | TTI, ms              |           | 20     |

|  |                                                             |            |
|--|-------------------------------------------------------------|------------|
|  | Coding type                                                 | TC         |
|  | CRC, bit                                                    | 16         |
|  | Max number of bits/TTI after channel coding                 | 2 124      |
|  | Uplink: Max number of bits/radio frame before rate matching | 1 062      |
|  | RM attribute                                                | 135 to 175 |

#### 6.10.2.4.1.23d.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.23d.1.1.3 TFCS

|           |                                                                                          |
|-----------|------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                        |
| TFCS      | (32 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |

#### 6.10.2.4.1.23d.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 32    |
|             | Max number of DPDCH data bits/radio frame | 1 200 |
|             | Puncturing Limit                          | 0.88  |

#### 6.10.2.4.1.23d.2 Downlink

#### 6.10.2.4.1.23d.2.1 Transport channel parameters

#### 6.10.2.4.1.23d.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

|              |                                             |            |        |
|--------------|---------------------------------------------|------------|--------|
| Higher layer | RAB/Signalling RB                           |            | RAB    |
| RLC          | Logical channel type                        |            | DTCH   |
|              | RLC mode                                    |            | AM     |
|              | Payload sizes, bit                          |            | 320    |
|              | Max data rate, bps                          |            | 32 000 |
|              | AMD PDU header, bit                         |            | 16     |
| MAC          | MAC header, bit                             |            | 0      |
|              | MAC multiplexing                            |            | N/A    |
| Layer 1      | TrCH type                                   |            | DCH    |
|              | TB sizes, bit                               |            | 336    |
|              | TFS                                         | TF0, bits  | 0x336  |
|              |                                             | TF1, bits  | 1x336  |
|              |                                             | TF2, bits  | 2x336  |
|              | TTI, ms                                     |            | 20     |
|              | Coding type                                 |            | TC     |
|              | CRC, bit                                    |            | 16     |
|              | Max number of bits/TTI after channel coding |            | 2 124  |
| RM attribute |                                             | 135 to 175 |        |

#### 6.10.2.4.1.23d.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.23d.2.1.3 TFCS

|           |                                                                                          |
|-----------|------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                        |
| TFCS      | (32 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |

#### 6.10.2.4.1.23d.2.2 Physical channel parameters

|               |                  |                          |          |
|---------------|------------------|--------------------------|----------|
| DPCH Downlink | DTX position     |                          | Flexible |
|               | Spreading factor |                          | 64       |
|               | DPCCCH           | Number of TFCI bits/slot | 8        |



|  |       |                           |     |
|--|-------|---------------------------|-----|
|  | DPDCH | Number of TPC bits/slot   | 4   |
|  |       | Number of Pilot bits/slot | 8   |
|  |       | Number of data bits/slot  | 60  |
|  |       | Number of data bits/frame | 900 |

6.10.2.4.1.24 Void

6.10.2.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.25.1 Uplink

See clause 6.10.2.4.1.23.1.

6.10.2.4.1.25.2 Downlink

6.10.2.4.1.25.2.1 Transport channel parameters

6.10.2.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

|              |                                             |           |            |
|--------------|---------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                           |           | RAB        |
| RLC          | Logical channel type                        |           | DTCH       |
|              | RLC mode                                    |           | AM         |
|              | Payload sizes, bit                          |           | 320        |
|              | Max data rate, bps                          |           | 64 000     |
|              | AMD PDU header, bit                         |           | 16         |
| MAC          | MAC header, bit                             |           | 0          |
|              | MAC multiplexing                            |           | N/A        |
| Layer 1      | TrCH type                                   |           | DCH        |
|              | TB sizes, bit                               |           | 336        |
|              | TFS                                         | TF0, bits | 0x336      |
|              |                                             | TF1, bits | 1x336      |
|              |                                             | TF2, bits | 2x336      |
|              |                                             | TF3, bits | 3x336      |
|              |                                             | TF4, bits | 4x336      |
|              | TTI, ms                                     |           | 20         |
|              | Coding type                                 |           | TC         |
|              | CRC, bit                                    |           | 16         |
|              | Max number of bits/TTI after channel coding |           | 4 236      |
|              | RM attribute                                |           | 130 to 170 |

6.10.2.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.25.2.1.3 TFCS

|           |                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                |
| TFCS      | (64 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

6.10.2.4.1.25.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

6.10.2.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.26.1 Uplink

6.10.2.4.1.26.1.1 Transport channel parameters

6.10.2.4.1.26.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

|              |                                                             |            |
|--------------|-------------------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                           | RAB        |
| RLC          | Logical channel type                                        | DTCH       |
|              | RLC mode                                                    | AM         |
|              | Payload sizes, bit                                          | 320        |
|              | Max data rate, bps                                          | 64 000     |
|              | AMD PDU header, bit                                         | 16         |
| MAC          | MAC header, bit                                             | 0          |
|              | MAC multiplexing                                            | N/A        |
| Layer 1      | TrCH type                                                   | DCH        |
|              | TB sizes, bit                                               | 336        |
|              | TFS                                                         | TF0, bits  |
|              |                                                             | TF1, bits  |
|              |                                                             | TF2, bits  |
|              |                                                             | TF3, bits  |
|              |                                                             | TF4, bits  |
|              | TTI, ms                                                     | 20         |
|              | Coding type                                                 | TC         |
|              | CRC, bit                                                    | 16         |
|              | Max number of bits/TTI after channel coding                 | 4 236      |
|              | Uplink: Max number of bits/radio frame before rate matching | 2 118      |
|              | RM attribute                                                | 130 to 170 |

6.10.2.4.1.26.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.26.1.1.3 TFCS

|           |                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                |
| TFCS      | (64 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

6.10.2.4.1.26.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.96  |

6.10.2.4.1.26.2 Downlink

See clause 6.10.2.4.1.25.2.

6.10.2.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.27.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.27.2 Downlink

6.10.2.4.1.27.2.1 Transport channel parameters

6.10.2.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

|              |                                             |            |
|--------------|---------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                           | RAB        |
| RLC          | Logical channel type                        | DTCH       |
|              | RLC mode                                    | AM         |
|              | Payload sizes, bit                          | 320        |
|              | Max data rate, bps                          | 128 000    |
|              | AMD PDU header, bit                         | 16         |
| MAC          | MAC header, bit                             | 0          |
|              | MAC multiplexing                            | N/A        |
| Layer 1      | TrCH type                                   | DCH        |
|              | TB sizes, bit                               | 336        |
|              | TFS                                         | TF0, bits  |
|              |                                             | TF1, bits  |
|              |                                             | TF2, bits  |
|              |                                             | TF3, bits  |
|              |                                             | TF4, bits  |
|              | TTI, ms                                     | 20         |
|              | Coding type                                 | TC         |
|              | CRC, bit                                    | 16         |
|              | Max number of bits/TTI after channel coding | 8 460      |
|              | RM attribute                                | 120 to 160 |

#### 6.10.2.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.27.2.1.3 TFCS

|           |                                                                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                 |
| TFCS      | (128 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

#### 6.10.2.4.1.27.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 16       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 288      |
|               |                  | Number of data bits/frame | 4 320    |

#### 6.10.2.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.2.4.1.28.1 Uplink

##### 6.10.2.4.1.28.1.1 Transport channel parameters

##### 6.10.2.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

|              |                      |         |
|--------------|----------------------|---------|
| Higher layer | RAB/Signalling RB    | RAB     |
| RLC          | Logical channel type | DTCH    |
|              | RLC mode             | AM      |
|              | Payload sizes, bit   | 320     |
|              | Max data rate, bps   | 128 000 |
|              | AMD PDU header, bit  | 16      |
| MAC          | MAC header, bit      | 0       |
|              | MAC multiplexing     | N/A     |

|         |                                                             |           |            |
|---------|-------------------------------------------------------------|-----------|------------|
| Layer 1 | TrCH type                                                   |           | DCH        |
|         | TB sizes, bit                                               |           | 336        |
|         | TFS                                                         | TF0, bits | 0x336      |
|         |                                                             | TF1, bits | 1x336      |
|         |                                                             | TF2, bits | 2x336      |
|         |                                                             | TF3, bits | 4x336      |
|         |                                                             | TF4, bits | 8x336      |
|         | TTI, ms                                                     |           | 20         |
|         | Coding type                                                 |           | TC         |
|         | CRC, bit                                                    |           | 16         |
|         | Max number of bits/TTI after channel coding                 |           | 8 460      |
|         | Uplink: Max number of bits/radio frame before rate matching |           | 4 230      |
|         | RM attribute                                                |           | 120 to 160 |

#### 6.10.2.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.28.1.1.3 TFCS

|           |                                                                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                 |
| TFCS      | (128 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

#### 6.10.2.4.1.28.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 8     |
|             | Max number of DPDCH data bits/radio frame | 4 800 |
|             | Puncturing Limit                          | 0.96  |

#### 6.10.2.4.1.28.2 Downlink

See clause 6.10.2.4.1.27.2.

#### 6.10.2.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

##### 6.10.2.4.1.29.1 Uplink

See clause 6.10.2.4.1.26.1.

##### 6.10.2.4.1.29.2 Downlink

##### 6.10.2.4.1.29.2.1 Transport channel parameters

##### 6.10.2.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

|              |                      |           |         |
|--------------|----------------------|-----------|---------|
| Higher layer | RAB/Signalling RB    |           | RAB     |
| RLC          | Logical channel type |           | DTCH    |
|              | RLC mode             |           | AM      |
|              | Payload sizes, bit   |           | 320     |
|              | Max data rate, bps   |           | 144 000 |
|              | AMD PDU header, bit  |           | 16      |
| MAC          | MAC header, bit      |           | 0       |
|              | MAC multiplexing     |           | N/A     |
| Layer 1      | TrCH type            |           | DCH     |
|              | TB sizes, bit        |           | 336     |
|              | TFS                  | TF0, bits | 0x336   |
|              |                      | TF1, bits | 1x336   |
|              |                      | TF2, bits | 2x336   |
|              |                      | TF3, bits | 4x336   |
|              |                      | TF4, bits | 8x336   |

|  |                                             |            |
|--|---------------------------------------------|------------|
|  | TF5, bits                                   | 9x336      |
|  | TTI, ms                                     | 20         |
|  | Coding type                                 | TC         |
|  | CRC, bit                                    | 16         |
|  | Max number of bits/TTI after channel coding | 9 516      |
|  | RM attribute                                | 140 to 180 |

#### 6.10.2.4.1.29.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.29.2.1.3 TFCS

|           |                                                                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                        |
| TFCS      | (144 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |

#### 6.10.2.4.1.29.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 16       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 288      |
|               |                  | Number of data bits/frame | 4 320    |

#### 6.10.2.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

#### 6.10.2.4.1.30.1 Uplink

#### 6.10.2.4.1.30.1.1 Transport channel parameters

#### 6.10.2.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB

|              |                                                             |           |            |
|--------------|-------------------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                           |           | RAB        |
| RLC          | Logical channel type                                        |           | DTCH       |
|              | RLC mode                                                    |           | AM         |
|              | Payload sizes, bit                                          |           | 320        |
|              | Max data rate, bps                                          |           | 144 000    |
|              | AMD PDU header, bit                                         |           | 16         |
| MAC          | MAC header, bit                                             |           | 0          |
|              | MAC multiplexing                                            |           | N/A        |
| Layer 1      | TrCH type                                                   |           | DCH        |
|              | TB sizes, bit                                               |           | 336        |
|              | TFS                                                         | TF0, bits | 0x336      |
|              |                                                             | TF1, bits | 1x336      |
|              |                                                             | TF2, bits | 2x336      |
|              |                                                             | TF3, bits | 4x336      |
|              |                                                             | TF4, bits | 8x336      |
|              |                                                             | TF5, bits | 9x336      |
|              | TTI, ms                                                     |           | 20         |
|              | Coding type                                                 |           | TC         |
|              | CRC, bit                                                    |           | 16         |
|              | Max number of bits/TTI after channel coding                 |           | 9 516      |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 4 758      |
|              | RM attribute                                                |           | 140 to 180 |

#### 6.10.2.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.30.1.1.3 TFCS

|           |                                                                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                        |
| TFCS      | (144 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |

## 6.10.2.4.1.30.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 8     |
|             | Max number of DPDCH data bits/radio frame | 4 800 |
|             | Puncturing Limit                          | 0.84  |

## 6.10.2.4.1.30.2 Downlink

See clause 6.10.2.4.1.29.2.

## 6.10.2.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.10.2.4.1.31.1 Uplink

See clause 6.10.2.4.1.26.1.

## 6.10.2.4.1.31.2 Downlink

## 6.10.2.4.1.31.2.1 Transport channel parameters

## 6.10.2.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

|              |                                             |           |                     |
|--------------|---------------------------------------------|-----------|---------------------|
| Higher layer | RAB/Signalling RB                           |           | RAB                 |
| RLC          | Logical channel type                        |           | DTCH                |
|              | RLC mode                                    |           | AM                  |
|              | Payload sizes, bit                          |           | 320                 |
|              | Max data rate, bps                          |           | 256 000             |
|              | AMD PDU header, bit                         |           | 16                  |
| MAC          | MAC header, bit                             |           | 0                   |
|              | MAC multiplexing                            |           | N/A                 |
| Layer 1      | TrCH type                                   |           | DCH                 |
|              | TB sizes, bit                               |           | 336                 |
|              | TFS                                         | TF0, bits | 0x336               |
|              |                                             | TF1, bits | 1x336               |
|              |                                             | TF2, bits | 2x336               |
|              |                                             | TF3, bits | 4x336               |
|              |                                             | TF4, bits | 8x336               |
|              |                                             | TF5, bits | N/A (alt. 12x336)   |
|              |                                             | TF6, bits | N/A (alt. 16x336)   |
|              | TTI, ms                                     |           | 10 (alt. 20)        |
|              | Coding type                                 |           | TC                  |
|              | CRC, bit                                    |           | 16                  |
|              | Max number of bits/TTI after channel coding |           | 8 460 (alt. 16 920) |
|              | RM attribute                                |           | 135 to 175          |

## 6.10.2.4.1.31.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.31.2.1.3 TFCS

|           |                                                                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10 (alt.14)                                                                                                                                                                                                                                     |
| TFCS      | (256 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0)) |

|  |                                                                                     |
|--|-------------------------------------------------------------------------------------|
|  | (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1)) |
|--|-------------------------------------------------------------------------------------|

#### 6.10.2.4.1.31.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 8        |
|               | Number of DPDCH  |                           | 1        |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 608      |
|               |                  | Number of data bits/frame | 9 120    |

6.10.2.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.32.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.32.2 Downlink

6.10.2.4.1.32.2.1 Transport channel parameters

6.10.2.4.1.32.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

|              |                                             |           |                      |
|--------------|---------------------------------------------|-----------|----------------------|
| Higher layer | RAB/Signalling RB                           |           | RAB                  |
| RLC          | Logical channel type                        |           | DTCH                 |
|              | RLC mode                                    |           | AM                   |
|              | Payload sizes, bit                          |           | 320                  |
|              | Max data rate, bps                          |           | 384 000              |
|              | AMD PDU header, bit                         |           | 16                   |
| MAC          | MAC header, bit                             |           | 0                    |
|              | MAC multiplexing                            |           | N/A                  |
| Layer 1      | TrCH type                                   |           | DCH                  |
|              | TB sizes, bit                               |           | 336                  |
|              | TFS                                         | TF0, bits | 0x336                |
|              |                                             | TF1, bits | 1x336                |
|              |                                             | TF2, bits | 2x336                |
|              |                                             | TF3, bits | 4x336                |
|              |                                             | TF4, bits | 8x336                |
|              |                                             | TF5, bits | 12x336               |
|              |                                             | TF6, bits | N/A (alt. 16x336)    |
|              |                                             | TF7, bits | N/A (alt. 20x336)    |
|              |                                             | TF8, bits | N/A (alt. 24x336)    |
|              | TTI, ms                                     |           | 10 (alt. 20)         |
|              | Coding type                                 |           | TC                   |
|              | CRC, bit                                    |           | 16                   |
|              | Max number of bits/TTI after channel coding |           | 12 684 (alt. 25 368) |
|              | RM attribute                                |           | 110 to 150           |

6.10.2.4.1.32.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.32.2.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12 (alt.18)                                                                                                                                                                                                                                                                                                                                                                                       |
| TFCS      | (384 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), |

|  |             |
|--|-------------|
|  | (TF8, TF1)) |
|--|-------------|

#### 6.10.2.4.1.32.2.2 Physical channel parameters

| DPCH Downlink | DTX position     |                           | Flexible |
|---------------|------------------|---------------------------|----------|
|               | Spreading factor |                           | 8        |
|               | Number of DPDCH  |                           | 1        |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 608      |
|               |                  | Number of data bits/frame | 9 120    |

6.10.2.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.33.1 Uplink

See clause 6.10.2.4.1.28.1.

6.10.2.4.1.33.2 Downlink

See clause 6.10.2.4.1.32.2.

6.10.2.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.34.1 Uplink

6.10.2.4.1.34.1.1 Transport channel parameters

6.10.2.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                           |           | RAB               |
|--------------|-------------------------------------------------------------|-----------|-------------------|
| RLC          | Logical channel type                                        |           | DTCH              |
|              | RLC mode                                                    |           | AM                |
|              | Payload sizes, bit                                          |           | 320               |
|              | Max data rate, bps                                          |           | 384 000           |
|              | AMD PDU header, bit                                         |           | 16                |
| MAC          | MAC header, bit                                             |           | 0                 |
|              | MAC multiplexing                                            |           | N/A               |
| Layer 1      | TrCH type                                                   |           | DCH               |
|              | TB sizes, bit                                               |           | 336               |
|              | TFS                                                         | TF0, bits | 0x336             |
|              |                                                             | TF1, bits | 1x336             |
|              |                                                             | TF2, bits | 2x336             |
|              |                                                             | TF3, bits | 4x336             |
|              |                                                             | TF4, bits | 8x336             |
|              |                                                             | TF5, bits | 12x336            |
|              |                                                             | TF6, bits | 16x336(alt. N/A)  |
|              |                                                             | TF7, bits | 20x336(alt. N/A)  |
|              |                                                             | TF8, bits | 24x336 (alt. N/A) |
|              | TTI, ms                                                     |           | 20 (alt. 10)      |
|              | Coding type                                                 |           | TC                |
|              | CRC, bit                                                    |           | 16                |
|              | Max number of bits/TTI after channel coding                 |           | 25 368            |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 12 684            |
|              | RM attribute                                                |           | 110-180           |

6.10.2.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.34.1.1.3 TFCS



|           |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 18 (alt.12)                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS      | (384 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)) |

#### 6.10.2.4.1.34.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 4     |
|             | Max number of DPDCH data bits/radio frame | 9 600 |
|             | Number of DPDCH                           | 1     |
|             | Puncturing Limit                          | 0.64  |

#### 6.10.2.4.1.34.2 Downlink

See clause 6.10.2.4.1.32.2.

#### 6.10.2.4.1.35 Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.2.4.1.35.1 Uplink

See clause 6.10.2.4.1.26.1.

##### 6.10.2.4.1.35.2 Downlink

##### 6.10.2.4.1.35.2.1 Transport channel parameters

##### 6.10.2.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

|              |                      |              |
|--------------|----------------------|--------------|
| Higher layer | RAB/Signalling RB    | RAB          |
| RLC          | Logical channel type | DTCH         |
|              | RLC mode             | AM           |
|              | Payload sizes, bit   | 640          |
|              | Max data rate, bps   | 2 048 000    |
|              | AMD PDU header, bit  | 16           |
| MAC          | MAC header, bit      | 0            |
|              | MAC multiplexing     | N/A          |
| Layer 1      | TrCH type            | DCH          |
|              | TB sizes, bit        | 656          |
|              | TFS                  | TF0, bits    |
|              |                      | TF1, bits    |
|              |                      | TF2, bits    |
|              |                      | TF3, bits    |
|              |                      | TF4, bits    |
|              |                      | TF5, bits    |
|              |                      | TF6, bits    |
|              |                      | TF7, bits    |
|              |                      | TF8, bits    |
|              |                      | TF9, bits    |
|              |                      | TF10, bits   |
|              |                      | TF11, bits   |
|              |                      | TF12, bits   |
|              |                      | TF13, bits   |
|              |                      | TF14, bits   |
|              |                      | TF15, bits   |
|              |                      | TF16, bits   |
|              |                      | TF17, bits   |
|              |                      | TF18, bits   |
|              | TTI, ms              | 10 (alt. 20) |
|              | Coding type          | TC           |
|              | CRC, bit             | 16           |

|  |                                             |                       |
|--|---------------------------------------------|-----------------------|
|  | Max number of bits/TTI after channel coding | 64 575 (alt. 129 141) |
|  | RM attribute                                | 130 to 170            |

#### 6.10.2.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.35.2.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 22 (alt.38)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| TFCS      | (2 048 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0), (TF9, TF0), (TF10, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1), (TF9, TF1), (TF10, TF1)<br>(alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15,<br>TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0),<br>(TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0)) |

#### 6.10.2.4.1.35.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 4        |
|               | Number of DPCH   |                           | 3        |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 1 248    |
|               |                  | Number of data bits/frame | 18 720   |

6.10.2.4.1.36 Void

6.10.2.4.1.37 Void

6.10.2.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38.1 Uplink

6.10.2.4.1.38.1.1 Transport channel parameters

6.10.2.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.2.4.1.23.1.1.1.

6.10.2.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.38.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 18 (alt. 12)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1)<br>(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)) |

## 6.10.2.4.1.38.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.96  |

## 6.10.2.4.1.38.2 Downlink

## 6.10.2.4.1.38.2.1 Transport channel parameters

## 6.10.2.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

## 6.10.2.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.23.2.1.1.

## 6.10.2.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.

## 6.10.2.4.1.38.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |

## 6.10.2.4.1.38.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 64       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 60       |
|               |                  | Number of data bits/frame | 900      |

## 6.10.2.4.1.38a Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.38a.1 Uplink

## 6.10.2.4.1.38a.1.1 Transport channel parameters

## 6.10.2.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

#### 6.10.2.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

|              |                                                             |            |
|--------------|-------------------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                           | RAB        |
| RLC          | Logical channel type                                        | DTCH       |
|              | RLC mode                                                    | AM         |
|              | Payload sizes, bit                                          | 320        |
|              | Max data rate, bps                                          | 0          |
|              | AMD PDU header, bit                                         | 16         |
| MAC          | MAC header, bit                                             | 0          |
|              | MAC multiplexing                                            | N/A        |
| Layer 1      | TrCH type                                                   | DCH        |
|              | TB sizes, bit                                               | 336        |
|              | TFS      TF0, bits                                          | 0x336      |
|              | TTI, ms                                                     | 20         |
|              | Coding type                                                 | CC         |
|              | CRC, bit                                                    | 16         |
|              | Max number of bits/TTI after channel coding                 | 0          |
|              | Uplink: Max number of bits/radio frame before rate matching | 0          |
|              | RM attribute                                                | 130 to 170 |

#### 6.10.2.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.38a.1.1.4 TFCS

|           |                                                                                                                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                                              |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1) |

#### 6.10.2.4.1.38a.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 64   |
|             | Max number of DPDCH data bits/radio frame | 600  |
|             | Puncturing Limit                          | 0.64 |

#### 6.10.2.4.1.38a.2 Downlink

##### 6.10.2.4.1.38a.2.1 Transport channel parameters

#### 6.10.2.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

#### 6.10.2.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

|              |                                             |       |
|--------------|---------------------------------------------|-------|
| Higher layer | RAB/Signalling RB                           | RAB   |
| RLC          | Logical channel type                        | DTCH  |
|              | RLC mode                                    | AM    |
|              | Payload sizes, bit                          | 320   |
|              | Max data rate, bps                          | 0     |
|              | AMD PDU header, bit                         | 16    |
| MAC          | MAC header, bit                             | 0     |
|              | MAC multiplexing                            | N/A   |
| Layer 1      | TrCH type                                   | DCH   |
|              | TB sizes, bit                               | 336   |
|              | TFS      TF0, bits                          | 0x336 |
|              | TTI, ms                                     | 20    |
|              | Coding type                                 | CC    |
|              | CRC, bit                                    | 16    |
|              | Max number of bits/TTI after channel coding | 0     |

|  |              |            |
|--|--------------|------------|
|  | RM attribute | 130 to 170 |
|--|--------------|------------|

#### 6.10.2.4.1.38a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.38a.2.1.4 TFCS

|           |                                                                                                                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                                              |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1) |

#### 6.10.2.4.1.38a.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 128   |
|               | DPCCH            | Number of TFCI bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 34    |
|               |                  | Number of data bits/frame | 510   |

#### 6.10.2.4.1.38b Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.2.4.1.38b.1 Uplink

#### 6.10.2.4.1.38b.1.1 Transport channel parameters

#### 6.10.2.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

#### 6.10.2.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

|              |                                                             |           |            |
|--------------|-------------------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                           |           | RAB        |
| RLC          | Logical channel type                                        |           | DTCH       |
|              | RLC mode                                                    |           | AM         |
|              | Payload sizes, bit                                          |           | 320        |
|              | Max data rate, bps                                          |           | 8 000      |
|              | AMD PDU header, bit                                         |           | 16         |
| MAC          | MAC header, bit                                             |           | 0          |
|              | MAC multiplexing                                            |           | N/A        |
| Layer 1      | TrCH type                                                   |           | DCH        |
|              | TB sizes, bit                                               |           | 336        |
|              | TFS                                                         | TF0, bits | 0x336      |
|              |                                                             | TF1, bits | 1x336      |
|              | TTI, ms                                                     |           | 40         |
|              | Coding type                                                 |           | TC         |
|              | CRC, bit                                                    |           | 16         |
|              | Max number of bits/TTI after channel coding                 |           | 1 068      |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 267        |
|              | RM attribute                                                |           | 135 to 175 |

#### 6.10.2.4.1.38b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.38b.1.1.4 TFCS

|           |    |
|-----------|----|
| TFCS size | 12 |
|-----------|----|

|      |                                                                                                                                                                                                                                                                                                                                                                 |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1) |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.10.2.4.1.38b.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 32    |
|             | Max number of DPDCH data bits/radio frame | 1 200 |
|             | Puncturing Limit                          | 1.0   |

#### 6.10.2.4.1.38b.2 Downlink

##### 6.10.2.4.1.38b.2.1 Transport channel parameters

##### 6.10.2.4.1.38b.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

##### 6.10.2.4.1.38b.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

|              |                                             |            |       |
|--------------|---------------------------------------------|------------|-------|
| Higher layer | RAB/Signalling RB                           |            | RAB   |
| RLC          | Logical channel type                        |            | DTCH  |
|              | RLC mode                                    |            | AM    |
|              | Payload sizes, bit                          |            | 320   |
|              | Max data rate, bps                          |            | 8 000 |
|              | AMD PDU header, bit                         |            | 16    |
| MAC          | MAC header, bit                             |            | 0     |
|              | MAC multiplexing                            |            | N/A   |
| Layer 1      | TrCH type                                   |            | DCH   |
|              | TB sizes, bit                               |            | 336   |
|              | TFS                                         | TF0, bits  | 0x336 |
|              |                                             | TF1, bits  | 1x336 |
|              | TTI, ms                                     |            | 40    |
|              | Coding type                                 |            | TC    |
|              | CRC, bit                                    |            | 16    |
|              | Max number of bits/TTI after channel coding |            | 1 068 |
| RM attribute |                                             | 135 to 175 |       |

##### 6.10.2.4.1.38b.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

##### 6.10.2.4.1.38b.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                                                                                              |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1) |

#### 6.10.2.4.1.38b.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 64       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 60       |
|               |                  | Number of data bits/frame | 900      |

6.10.2.4.1.38c Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38c.1 Uplink

6.10.2.4.1.38c.1.1 Transport channel parameters

6.10.2.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.2.4.1.23c.1.1.1.

6.10.2.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38c.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF1,TF4,TF1) |

6.10.2.4.1.38c.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 1.0   |

6.10.2.4.1.38c.2 Downlink

6.10.2.4.1.38c.2.1 Transport channel parameters

6.10.2.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.2.4.1.23c.2.1.1.

6.10.2.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.38c.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF1,TF3,TF0), |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF1,TF4,TF1) |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 6.10.2.4.1.38c.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCl bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

6.10.2.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38d.1 Uplink

6.10.2.4.1.38d.1.1 Transport channel parameters

6.10.2.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                           |           | RAB                            | RAB    |
|--------------|-------------------------------------------------------------|-----------|--------------------------------|--------|
| RLC          | Logical channel type                                        |           | DTCH                           | DTCH   |
|              | RLC mode                                                    |           | AM                             | AM     |
|              | Payload sizes, bit                                          |           | 320                            | 320    |
|              | Max data rate, bps                                          |           | 64 000                         | 64 000 |
|              | AMD PDU header, bit                                         |           | 16                             | 16     |
| MAC          | MAC header, bit                                             |           | 4                              | 4      |
|              | MAC multiplexing                                            |           | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                                   |           | DCH                            |        |
|              | TB sizes, bit                                               |           | 340                            |        |
|              | TFS                                                         | TF0, bits | 0x340                          |        |
|              |                                                             | TF1, bits | 1x340                          |        |
|              |                                                             | TF2, bits | 2x340                          |        |
|              |                                                             | TF3, bits | 3x340                          |        |
|              |                                                             | TF4, bits | 4x340                          |        |
|              | TTI, ms                                                     |           | 20                             |        |
|              | Coding type                                                 |           | TC                             |        |
|              | CRC, bit                                                    |           | 16                             |        |
|              | Max number of bits/TTI after channel coding                 |           | 4 284                          |        |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 2 142                          |        |
|              | RM attribute                                                |           | 130 to 170                     |        |

6.10.2.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.



## 6.10.2.4.1.38d.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1) |

## 6.10.2.4.1.38d.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.76  |

## 6.10.2.4.1.38d.2 Downlink

## 6.10.2.4.1.38d.2.1 Transport channel parameters

## 6.10.2.4.1.38d.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

## 6.10.2.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB                           |           | RAB                            | RAB    |
|--------------|---------------------------------------------|-----------|--------------------------------|--------|
| RLC          | Logical channel type                        |           | DTCH                           | DTCH   |
|              | RLC mode                                    |           | AM                             | AM     |
|              | Payload sizes, bit                          |           | 320                            | 320    |
|              | Max data rate, bps                          |           | 64 000                         | 64 000 |
|              | AMD PDU header, bit                         |           | 16                             | 16     |
| MAC          | MAC header, bit                             |           | 4                              | 4      |
|              | MAC multiplexing                            |           | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                   |           | DCH                            |        |
|              | TB sizes, bit                               |           | 340                            |        |
|              | TFS                                         | TF0, bits | 0x340                          |        |
|              |                                             | TF1, bits | 1x340                          |        |
|              |                                             | TF2, bits | 2x340                          |        |
|              |                                             | TF3, bits | 3x340                          |        |
|              |                                             | TF4, bits | 4x340                          |        |
|              | TTI, ms                                     |           | 20                             |        |
|              | Coding type                                 |           | TC                             |        |
|              | CRC, bit                                    |           | 16                             |        |
|              | Max number of bits/TTI after channel coding |           | 4 284                          |        |
|              | RM attribute                                |           | 130 to 170                     |        |

## 6.10.2.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.38d.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                      |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                   |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0), |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1) |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.10.2.4.1.38d.2.2 Physical channel parameters

| DPCH Downlink | DTX position     |                           | Flexible |
|---------------|------------------|---------------------------|----------|
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCl bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

6.10.2.4.1.38e Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38e.1 Uplink

6.10.2.4.1.38e.1.1 Transport channel parameters

6.10.2.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38e.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.10.2.4.1.38a.1.1.2.

6.10.2.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38e.1.1.4 TFCS

| TFCS size | 12                                                                                                                                                                                                                                                                                                                                                              |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1) |

#### 6.10.2.4.1.38e.1.2 Physical channel parameters

| DPCH Uplink | Min spreading factor                      | 64   |
|-------------|-------------------------------------------|------|
|             | Max number of DPDCH data bits/radio frame | 600  |
|             | Puncturing Limit                          | 0.84 |

6.10.2.4.1.38e.2 Downlink

6.10.2.4.1.38e.2.1 Transport channel parameters

6.10.2.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

See clause 6.10.2.4.1.38a.2.1.2

#### 6.10.2.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.38e.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |

#### 6.10.2.4.1.38e.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 128   |
|               | DPCCH            | Number of TFCl bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 34    |
|               |                  | Number of data bits/frame | 510   |

6.10.2.4.1.38f Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.2.4.1.38f.1 Uplink

#### 6.10.2.4.1.38f.1.1 Transport channel parameters

6.10.2.4.1.38f.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.1.1.2.

#### 6.10.2.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.38f.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |

#### 6.10.2.4.1.38f.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 32    |
|             | Max number of DPDCH data bits/radio frame | 1 200 |
|             | Puncturing Limit                          | 1.0   |

## 6.10.2.4.1.38f.2 Downlink

## 6.10.2.4.1.38f.2.1 Transport channel parameters

## 6.10.2.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

## 6.10.2.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.2.1.2

## 6.10.2.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.38f.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |

## 6.10.2.4.1.38f.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 64       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 60       |
|               |                  | Number of data bits/frame | 900      |

## 6.10.2.4.1.38g Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.38g.1 Uplink

## 6.10.2.4.1.38g.1.1 Transport channel parameters

## 6.10.2.4.1.38g.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

## 6.10.2.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.10.2.4.1.23b.1.1.1.

## 6.10.2.4.1.38g.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.38g.1.1.4 TFCS

|           |                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 32                                                                                                                                                                                                                |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0),<br>(TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0),<br>(TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0),<br>(TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1),<br>(TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1),<br>(TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1) |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.10.2.4.1.38g.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 32    |
|             | Max number of DPDCH data bits/radio frame | 1 200 |
|             | Puncturing Limit                          | 0.88  |

#### 6.10.2.4.1.38g.2 Downlink

##### 6.10.2.4.1.38g.2.1 Transport channel parameters

##### 6.10.2.4.1.38g.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

##### 6.10.2.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

See clause 6.10.2.4.1.23b.2.1.1.

##### 6.10.2.4.1.38g.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

##### 6.10.2.4.1.38g.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),<br>(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1) |

#### 6.10.2.4.1.38g.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 64       |
|               | DPCCH            | Number of TFCl bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 60       |
|               |                  | Number of data bits/frame | 900      |

#### 6.10.2.4.1.38h Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.2.4.1.38h.1 Uplink

## 6.10.2.4.1.38h.1.1 Transport channel parameters

## 6.10.2.4.1.38h.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

## 6.10.2.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.2.4.1.23c.1.1.1.

## 6.10.2.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.38h.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF0,TF0,TF0,TF2,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF5,TF4,TF1,TF0,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF5,TF4,TF1,TF2,TF0), (TF5,TF4,TF1,TF4,TF0), (TF4,TF3,TF0,TF0,TF0),<br>(TF4,TF3,TF0,TF1,TF0), (TF3,TF2,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF1,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF2,TF0),<br>(TF1,TF0,TF0,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF0,TF0,TF0,TF4,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF5,TF4,TF1,TF1,TF1), (TF5,TF4,TF1,TF2,TF1), (TF5,TF4,TF1,TF4,TF1),<br>(TF4,TF3,TF0,TF0,TF1), (TF4,TF3,TF0,TF1,TF1), (TF3,TF2,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1,TF1),<br>(TF1,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF4,TF1) |

## 6.10.2.4.1.38h.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 1.0   |

## 6.10.2.4.1.38h.2 Downlink

## 6.10.2.4.1.38h.2.1 Transport channel parameters

## 6.10.2.4.1.38h.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

## 6.10.2.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.2.4.1.23c.2.1.1.

## 6.10.2.4.1.38h.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.38h.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF0,TF0,TF0,TF2,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF5,TF4,TF1,TF0,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF5,TF4,TF1,TF2,TF0), (TF5,TF4,TF1,TF4,TF0), (TF4,TF3,TF0,TF0,TF0),<br>(TF4,TF3,TF0,TF1,TF0), (TF4,TF3,TF0,TF2,TF0), (TF4,TF3,TF0,TF4,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF3,TF2,TF0,TF1,TF0), (TF3,TF2,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF4,TF0), (TF2,TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF2,TF1,TF0,TF2,TF0), (TF2,TF1,TF0,TF4,TF0), (TF1,TF0,TF0,TF0,TF0),<br>(TF1,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF0,TF0,TF0,TF2,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF5,TF4,TF1,TF0,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF5,TF4,TF1,TF2,TF1), (TF5,TF4,TF1,TF4,TF1), (TF4,TF3,TF0,TF0,TF1),<br>(TF4,TF3,TF0,TF1,TF1), (TF4,TF3,TF0,TF2,TF1), (TF4,TF3,TF0,TF4,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF3,TF2,TF0,TF1,TF1), (TF3,TF2,TF0,TF2,TF1),<br>(TF3,TF2,TF0,TF4,TF1), (TF2,TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF2,TF1,TF0,TF2,TF1), (TF2,TF1,TF0,TF4,TF1), (TF1,TF0,TF0,TF0,TF1),<br>(TF1,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF4,TF1) |

## 6.10.2.4.1.38h.2.2 Physical channel parameters

| DPCH Downlink | DTX position     |                           | Flexible |
|---------------|------------------|---------------------------|----------|
|               | Spreading factor |                           | 32       |
| DPCCH         |                  | Number of TFCl bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
| DPDCH         |                  | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

6.10.2.4.1.38i Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38i.1 Uplink

6.10.2.4.1.38i.1.1 Transport channel parameters

6.10.2.4.1.38i.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38i.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.2.4.1.26.1.1.1.

6.10.2.4.1.38i.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.38i.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),<br>(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),<br>(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),<br>(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |

## 6.10.2.4.1.38i.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.76  |

## 6.10.2.4.1.38i.2 Downlink

## 6.10.2.4.1.38i.2.1 Transport channel parameters

## 6.10.2.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

## 6.10.2.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.2.4.1.25.2.1.1.

## 6.10.2.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1



## 6.10.2.4.1.38i.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),<br>(TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),<br>(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),<br>(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1),<br>(TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),<br>(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |

## 6.10.2.4.1.38i.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCl bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

6.10.2.4.1.38j Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38j.1 Uplink

6.10.2.4.1.38j.1.1 Transport channel parameters

See clause 6.10.2.4.1.38i.1.1

6.10.2.4.1.38j.2 Downlink

6.10.2.4.1.38j.2.1 Transport channel parameters

6.10.2.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.2.4.1.27.2.1.1.

6.10.2.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38j.2.1.4 TFCS

|           |                                                                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 60                                                                                                                                         |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),<br>(TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),<br>(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),<br>(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1),<br>(TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),<br>(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.10.2.4.1.38j.2.2 Physical channel parameters

| DPCH Downlink | DTX position              |  | Flexible |
|---------------|---------------------------|--|----------|
|               | Spreading factor          |  | 16       |
| DPCCCH        | Number of TFCl bits/slot  |  | 8        |
|               | Number of TPC bits/slot   |  | 8        |
|               | Number of Pilot bits/slot |  | 16       |
| DPDCH         | Number of data bits/slot  |  | 288      |
|               | Number of data bits/frame |  | 4 320    |

6.10.2.4.1.38k Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (L1 multiplexing)

6.10.2.4.1.38k.1 Uplink

6.10.2.4.1.38k.1.1 Transport channel parameters

6.10.2.4.1.38k.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38k.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.2.4.1.23.1.1.1.

6.10.2.4.1.38k.1.1.3 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.2.4.1.23.1.1.1.

6.10.2.4.1.38k.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38k.1.1.5 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 54 (alt. 24)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB, 32kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0),<br>(TF2, TF1, TF1, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF0),<br>(TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0),<br>(TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF0, TF1, TF0),<br>(TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0),<br>(TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0),<br>(TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF1, TF0), |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF0, TF2, TF0),<br>(TF2, TF1, TF1, TF0, TF2, TF0), (TF0, TF0, TF0, TF1, TF2, TF0),<br>(TF1, TF0, TF0, TF1, TF2, TF0), (TF2, TF1, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF2, TF2, TF0), (TF1, TF0, TF0, TF2, TF2, TF0),<br>(TF2, TF1, TF1, TF2, TF2, TF0), (TF0, TF0, TF0, TF0, TF0, TF1),<br>(TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1),<br>(TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF2, TF0, TF1),<br>(TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1),<br>(TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1),<br>(TF2, TF1, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1, TF1),<br>(TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1),<br>(TF0, TF0, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF0, TF2, TF1),<br>(TF0, TF0, TF0, TF1, TF2, TF1), (TF1, TF0, TF0, TF1, TF2, TF1),<br>(TF2, TF1, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF2, TF2, TF1),<br>(TF1, TF0, TF0, TF2, TF2, TF1), (TF2, TF1, TF1, TF2, TF2, TF1)<br>(alt. (TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0),<br>(TF2, TF1, TF1, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF0),<br>(TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0),<br>(TF2, TF1, TF1, TF0, TF1, TF0), (TF0, TF0, TF0, TF1, TF1, TF0),<br>(TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1),<br>(TF2, TF1, TF1, TF0, TF0, TF1), (TF0, TF0, TF0, TF1, TF0, TF1),<br>(TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1),<br>(TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF1, TF1, TF1),<br>(TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1)) |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.10.2.4.1.38k.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.8   |

#### 6.10.2.4.1.38k.2 Downlink

##### 6.10.2.4.1.38k.2.1 Transport channel parameters

##### 6.10.2.4.1.38k.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

##### 6.10.2.4.1.38k.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.2.4.1.23d.2.1.1.

##### 6.10.2.4.1.38k.2.1.3 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.2.4.1.23d.2.1.1.

##### 6.10.2.4.1.38k.2.1.4 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.

##### 6.10.2.4.1.38k.2.1.5 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 54                                                                                                                                                                                                                                                                                                                                                       |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB, 32kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0),<br>(TF2, TF1, TF1, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0, TF0),<br>(TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | (TF2, TF1, TF1, TF2, TF0, TF0), (TF0, TF0, TF0, TF0, TF1, TF0),<br>(TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0),<br>(TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0),<br>(TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF1, TF0),<br>(TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF0, TF2, TF0),<br>(TF2, TF1, TF1, TF0, TF2, TF0), (TF0, TF0, TF0, TF1, TF2, TF0),<br>(TF1, TF0, TF0, TF1, TF2, TF0), (TF2, TF1, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF2, TF2, TF0), (TF1, TF0, TF0, TF2, TF2, TF0),<br>(TF2, TF1, TF1, TF2, TF2, TF0), (TF0, TF0, TF0, TF0, TF0, TF1),<br>(TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1),<br>(TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF2, TF0, TF1),<br>(TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1),<br>(TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1),<br>(TF2, TF1, TF1, TF0, TF1, TF1), (TF0, TF0, TF0, TF1, TF1, TF1),<br>(TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1),<br>(TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF0, TF2, TF1),<br>(TF1, TF0, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF0, TF2, TF1),<br>(TF0, TF0, TF0, TF1, TF2, TF1), (TF1, TF0, TF0, TF1, TF2, TF1),<br>(TF2, TF1, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF2, TF2, TF1),<br>(TF1, TF0, TF0, TF2, TF2, TF1), (TF2, TF1, TF1, TF2, TF2, TF1) |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.10.2.4.1.38k.2.2 Physical channel parameters

| DPCH Downlink | DTX position              |  | Flexible |
|---------------|---------------------------|--|----------|
|               | Spreading factor          |  | 32       |
| DPCCH         | Number of TFCl bits/slot  |  | 8        |
|               | Number of TPC bits/slot   |  | 4        |
|               | Number of Pilot bits/slot |  | 8        |
| DPDCH         | Number of data bits/slot  |  | 140      |
|               | Number of data bits/frame |  | 2 100    |

6.10.2.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

#### 6.10.2.4.1.39.1 Uplink

See clause 6.10.2.4.1.38.1.

#### 6.10.2.4.1.39.2 Downlink

#### 6.10.2.4.1.39.2.1 Transport channel parameters

##### 6.10.2.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

##### 6.10.2.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.2.4.1.25.2.1.1.

##### 6.10.2.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.39.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.10.2.4.1.39.2.2 Physical channel parameters

| DPCH Downlink | DTX position     |                           | Flexible |
|---------------|------------------|---------------------------|----------|
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

6.10.2.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.40.1 Uplink

6.10.2.4.1.40.1.1 Transport channel parameters

6.10.2.4.1.40.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.40.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.2.4.1.26.1.1.1.

6.10.2.4.1.40.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.40.1.1.4 TFCS

| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |

#### 6.10.2.4.1.40.1.2 Physical channel parameters

| DPCH Uplink | Min spreading factor                      | 16    |
|-------------|-------------------------------------------|-------|
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.76  |

6.10.2.4.1.40.2 Downlink

See clause 6.10.2.4.1.39.2.

6.10.2.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.41.1 Uplink

See clause 6.10.2.4.1.40.1.

#### 6.10.2.4.1.41.2 Downlink

##### 6.10.2.4.1.41.2.1 Transport channel parameters

###### 6.10.2.4.1.41.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

###### 6.10.2.4.1.41.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.2.4.1.27.2.1.1.

###### 6.10.2.4.1.41.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

##### 6.10.2.4.1.41.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |

##### 6.10.2.4.1.41.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 16       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 288      |
|               |                  | Number of data bits/frame | 4 320    |

###### 6.10.2.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.2.4.1.42.1 Uplink

See clause 6.10.2.4.1.40.1.

#### 6.10.2.4.1.42.2 Downlink

##### 6.10.2.4.1.42.2.1 Transport channel parameters

###### 6.10.2.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

###### 6.10.2.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.2.4.1.31.2.1.1.

###### 6.10.2.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.42.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30 (alt. 42)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 256 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)<br>(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),<br>(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),<br>(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),<br>(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1)) |

## 6.10.2.4.1.42.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 8        |
|               | Number of DPDCH  |                           | 1        |
|               | DPCCH            | Number of TFCH bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 608      |
|               |                  | Number of data bits/frame | 9 120    |

6.10.2.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.43.1 Uplink

See clause 6.10.2.4.1.40.1.

## 6.10.2.4.1.43.2 Downlink

## 6.10.2.4.1.43.2.1 Transport channel parameters

6.10.2.4.1.43.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

See clause 6.10.2.4.1.32.2.1.1.

6.10.2.4.1.43.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.43.2.1.4 TFCS

|           |              |
|-----------|--------------|
| TFCS size | 36 (alt. 54) |
|-----------|--------------|

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),<br>(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),<br>(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),<br>(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),<br>(TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),<br>(TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),<br>(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),<br>(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),<br>(TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),<br>(TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1)) |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.10.2.4.1.43.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 8        |
|               | Number of DPDCH  |                           | 1        |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 608      |
|               |                  | Number of data bits/frame | 9 120    |

6.10.2.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.44.1 Uplink

6.10.2.4.1.44.1.1 Transport channel parameters

6.10.2.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.2.4.1.28.1.1.1.

6.10.2.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.44.1.1.4 TFCS

|           |                                                                     |
|-----------|---------------------------------------------------------------------|
| TFCS size | 30                                                                  |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)= |



|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.10.2.4.1.44.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 8     |
|             | Max number of DPDCH data bits/radio frame | 4 800 |
|             | Puncturing Limit                          | 0.92  |

#### 6.10.2.4.1.44.2 Downlink

##### 6.10.2.4.1.44.2.1 Transport channel parameters

##### 6.10.2.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

##### 6.10.2.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

See clause 6.10.2.4.1.35.2.1.1.

##### 6.10.2.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.44.2.1.4 TFCS

[illegible]

## 6.10.2.4.1.44.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 4        |
|               | Number of DPDCH  |                           | 3        |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 1 248    |
|               |                  | Number of data bits/frame | 18 720   |

6.10.2.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.45.1 Uplink

6.10.2.4.1.45.1.1 Transport channel parameters

6.10.2.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

See clause 6.10.2.4.1.17.1.1.1.

6.10.2.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.45.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |

6.10.2.4.1.45.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.88  |

6.10.2.4.1.45.2 Downlink

6.10.2.4.1.45.2.1 Transport channel parameters

6.10.2.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

See clause 6.10.2.4.1.17.2.1.1.

6.10.2.4.1.45.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.45.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |

#### 6.10.2.4.1.45.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCl bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

6.10.2.4.1.46 Void

6.10.2.4.1.47 Void

6.10.2.4.1.48 Void

6.10.2.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.49.1 Uplink

6.10.2.4.1.49.1.1 Transport channel parameters

6.10.2.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.49.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                                                                                                                                                |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |

#### 6.10.2.4.1.49.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |

|  |                  |      |
|--|------------------|------|
|  | Puncturing Limit | 0.72 |
|--|------------------|------|

#### 6.10.2.4.1.49.2 Downlink

##### 6.10.2.4.1.49.2.1 Transport channel parameters

##### 6.10.2.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

##### 6.10.2.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

##### 6.10.2.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.11.

##### 6.10.2.4.1.49.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                                                                                                                                                |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |

#### 6.10.2.4.1.49.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

#### 6.10.2.4.1.49a Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.2.4.1.49a.1 Uplink

##### 6.10.2.4.1.49a.1.1 Transport channel parameters

##### 6.10.2.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

##### 6.10.2.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

##### 6.10.2.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

##### 6.10.2.4.1.49a.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24                                                                                                                                                                                                                                                                                        |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), |

|  |                                                                                                                                                                                                                                                                                                                                                                     |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.10.2.4.1.49a.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.72  |

#### 6.10.2.4.1.49a.2 Downlink

##### 6.10.2.4.1.49a.2.1 Transport channel parameters

##### 6.10.2.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

##### 6.10.2.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

##### 6.10.2.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

##### 6.10.2.4.1.49a.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |

#### 6.10.2.4.1.49a.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCl bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

##### 6.10.2.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.2.4.1.50.1 Uplink

##### 6.10.2.4.1.50.1.1 Transport channel parameters

##### 6.10.2.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

##### 6.10.2.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.50.1.1.3 TFCS

|           |                                                                                                                                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 8                                                                                                                                                                             |
| TFCS      | (64 kbps RAB, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0)<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |

#### 6.10.2.4.1.50.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 8     |
|             | Max number of DPDCH data bits/radio frame | 4 800 |
|             | Puncturing Limit                          | 0.92  |

#### 6.10.2.4.1.50.2 Downlink

##### 6.10.2.4.1.50.2.1 Transport channel parameters

##### 6.10.2.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

##### 6.10.2.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.50.2.1.3 TFCS

|           |                                                                                                                                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 8                                                                                                                                                                             |
| TFCS      | (64 kbps RAB, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0)<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |

#### 6.10.2.4.1.50.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 16       |
|               | DPCCH            | Number of TFCl bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 288      |
|               |                  | Number of data bits/frame | 4 320    |

##### 6.10.2.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.2.4.1.51.1 Uplink

##### 6.10.2.4.1.51.1.1 Transport channel parameters

##### 6.10.2.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

##### 6.10.2.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.2.4.1.26.1.1.1.

##### 6.10.2.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.51.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS      | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |

#### 6.10.2.4.1.51.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 8     |
|             | Max number of DPDCH data bits/radio frame | 4 800 |
|             | Puncturing Limit                          | 0.88  |

#### 6.10.2.4.1.51.2 Downlink

##### 6.10.2.4.1.51.2.1 Transport channel parameters

##### 6.10.2.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

##### 6.10.2.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.2.4.1.25.2.1.1.

##### 6.10.2.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

##### 6.10.2.4.1.51.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS      | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |

#### 6.10.2.4.1.51.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 16       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 288      |
|               |                  | Number of data bits/frame | 4 320    |

#### 6.10.2.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.2.4.1.51a.1 Uplink

##### 6.10.2.4.1.51a.1.1 Transport channel parameters

##### 6.10.2.4.1.51a.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

##### 6.10.2.4.1.51a.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.1.1.2.



## 6.10.2.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.51a.1.1.4 TFCS

|           |                                                                                                                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 8                                                                                                                                                                                                |
| TFCS      | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |

## 6.10.2.4.1.51a.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.72  |

## 6.10.2.4.1.51a.2 Downlink

## 6.10.2.4.1.51a.2.1 Transport channel parameters

## 6.10.2.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / PS RAB

See clause 6.10.2.4.1.13.2.1.1.

## 6.10.2.4.1.51a.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.2.1.2.

## 6.10.2.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.51a.2.1.4 TFCS

|           |                                                                                                                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 8                                                                                                                                                                                                |
| TFCS      | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |

## 6.10.2.4.1.51a.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCCH           | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

## 6.10.2.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.51b.1 Uplink

## 6.10.2.4.1.51b.1.1 Transport channel parameters

## 6.10.2.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

## 6.10.2.4.1.51b.1.1.2 Transport channel parameters for Interactive or Background / UL:16 kbps / PS RAB

|              |                   |     |
|--------------|-------------------|-----|
| Higher layer | RAB/Signalling RB | RAB |
|--------------|-------------------|-----|

|         |                                                             |           |            |
|---------|-------------------------------------------------------------|-----------|------------|
| RLC     | Logical channel type                                        |           | DTCH       |
|         | RLC mode                                                    |           | AM         |
|         | Payload sizes, bit                                          |           | 320        |
|         | Max data rate, bps                                          |           | 16 000     |
|         | AMD PDU header, bit                                         |           | 16         |
| MAC     | MAC header, bit                                             |           | 0          |
|         | MAC multiplexing                                            |           | N/A        |
| Layer 1 | TrCH type                                                   |           | DCH        |
|         | TB sizes, bit                                               |           | 336        |
|         | TFS                                                         | TF0, bits | 0x336      |
|         |                                                             | TF1, bits | 1x336      |
|         |                                                             | TF2, bits | 2x336      |
|         | TTI, ms                                                     |           | 40         |
|         | Coding type                                                 |           | TC         |
|         | CRC, bit                                                    |           | 16         |
|         | Max number of bits/TTI after channel coding                 |           | 2 124      |
|         | Uplink: Max number of bits/radio frame before rate matching |           | 531        |
|         | RM attribute                                                |           | 135 to 175 |

#### 6.10.2.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.51b.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                 |
| TFCS      | (64 kbps Conversational RAB, 16 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1) |

#### 6.10.2.4.1.51b.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.64  |

#### 6.10.2.4.1.51b.2 Downlink

See clause 6.10.2.4.1.51.2.

#### 6.10.2.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.2.4.1.52.1 Uplink

See clause 6.10.2.4.1.51.1.

##### 6.10.2.4.1.52.2 Downlink

##### 6.10.2.4.1.52.2.1 Transport channel parameters

##### 6.10.2.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

##### 6.10.2.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.2.4.1.27.2.1.1.

##### 6.10.2.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.52.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS      | (Conv. 64 kbps RAB, I/B 128 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |

## 6.10.2.4.1.52.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 8        |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 608      |
|               |                  | Number of data bits/frame | 9 120    |

6.10.2.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.53.1 Uplink

## 6.10.2.4.1.53.1.1 Transport channel parameters

6.10.2.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.2.4.1.28.1.1.1.

6.10.2.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.53.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS      | (Conv. 64 kbps RAB, I/B 128 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |

## 6.10.2.4.1.53.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 4     |
|             | Max number of DPDCH data bits/radio frame | 9 600 |
|             | Puncturing Limit                          | 0.96  |

## 6.10.2.4.1.53.2 Downlink

See clause 6.10.2.4.1.52.2.

## 6.10.2.4.1.54 Void

## 6.10.2.4.1.55 Void

6.10.2.4.1.56 Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.56.1 Uplink

## 6.10.2.4.1.56.1.1 Transport channel parameters

## 6.10.2.4.1.56.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB + UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                           | RAB                            | RAB   |
|--------------|-------------------------------------------------------------|--------------------------------|-------|
| RLC          | Logical channel type                                        | DTCH                           | DTCH  |
|              | RLC mode                                                    | AM                             | AM    |
|              | Payload sizes, bit                                          | 320                            | 320   |
|              | Max data rate, bps                                          | 8 000                          | 8 000 |
|              | AMD PDU header, bit                                         | 16                             | 16    |
| MAC          | MAC header, bit                                             | 4                              | 4     |
|              | MAC multiplexing                                            | 2 logical channel multiplexing |       |
| Layer 1      | TrCH type                                                   | DCH                            |       |
|              | TB sizes, bit                                               | 340                            |       |
|              | TFS                                                         | 0x340                          |       |
|              |                                                             | 1x340                          |       |
|              | TTI, ms                                                     | 40                             |       |
|              | Coding type                                                 | TC                             |       |
|              | CRC, bit                                                    | 16                             |       |
|              | Max number of bits/TTI after channel coding                 | 1 080                          |       |
|              | Uplink: Max number of bits/radio frame before rate matching | 270                            |       |
|              | RM attribute                                                | 135 to 175                     |       |

## 6.10.2.4.1.56.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.56.1.1.3 TFCS

|           |                                                                                |
|-----------|--------------------------------------------------------------------------------|
| TFCS size | 4                                                                              |
| TFCS      | (8 kbps RAB + 8 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1) |

## 6.10.2.4.1.56.1.2 Physical channel parameters

|             |                                           |     |
|-------------|-------------------------------------------|-----|
| DPCH Uplink | Min spreading factor                      | 64  |
|             | Max number of DPDCH data bits/radio frame | 600 |
|             | Puncturing Limit                          | 1.0 |

## 6.10.2.4.1.56.2 Downlink

## 6.10.2.4.1.56.2.1 Transport channel parameters

## 6.10.2.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB    | RAB                            | RAB   |
|--------------|----------------------|--------------------------------|-------|
| RLC          | Logical channel type | DTCH                           | DTCH  |
|              | RLC mode             | AM                             | AM    |
|              | Payload sizes, bit   | 320                            | 320   |
|              | Max data rate, bps   | 8 000                          | 8 000 |
|              | AMD PDU header, bit  | 16                             | 16    |
| MAC          | MAC header, bit      | 4                              | 4     |
|              | MAC multiplexing     | 2 logical channel multiplexing |       |
| Layer 1      | TrCH type            | DCH                            |       |
|              | TB sizes, bit        | 340                            |       |
|              | TFS                  | 0x340                          |       |
|              |                      | 1x340                          |       |
|              | TTI, ms              | 40                             |       |
|              | Coding type          | TC                             |       |
|              | CRC, bit             | 16                             |       |

|  |                                             |            |
|--|---------------------------------------------|------------|
|  | Max number of bits/TTI after channel coding | 1 080      |
|  | RM attribute                                | 135 to 175 |

#### 6.10.2.4.1.56.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.56.2.1.3 TFCS

|           |                                                                                |
|-----------|--------------------------------------------------------------------------------|
| TFCS size | 4                                                                              |
| TFCS      | (8 kbps RAB + 8 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1) |

#### 6.10.2.4.1.56.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 128      |
|               | DPCCH            | Number of TFCI bits/slot  | 2        |
|               |                  | Number of TPC bits/slot   | 2        |
|               |                  | Number of Pilot bits/slot | 4        |
|               | DPDCH            | Number of data bits/slot  | 32       |
|               |                  | Number of data bits/frame | 480      |

#### 6.10.2.4.1.57 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.2.4.1.57.1 Uplink

#### 6.10.2.4.1.57.1.1 Transport channel parameters

#### 6.10.2.4.1.57.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                           |           | RAB                            | RAB    |
|--------------|-------------------------------------------------------------|-----------|--------------------------------|--------|
| RLC          | Logical channel type                                        |           | DTCH                           | DTCH   |
|              | RLC mode                                                    |           | AM                             | AM     |
|              | Payload sizes, bit                                          |           | 320                            | 320    |
|              | Max data rate, bps                                          |           | 64 000                         | 64 000 |
|              | AMD PDU header, bit                                         |           | 16                             | 16     |
| MAC          | MAC header, bit                                             |           | 4                              | 4      |
|              | MAC multiplexing                                            |           | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                                   |           | DCH                            |        |
|              | TB sizes, bit                                               |           | 340                            |        |
|              | TFS                                                         | TF0, bits | 0x340                          |        |
|              |                                                             | TF1, bits | 1x340                          |        |
|              |                                                             | TF2, bits | 2x340                          |        |
|              |                                                             | TF3, bits | 3x340                          |        |
|              |                                                             | TF4, bits | 4x340                          |        |
|              | TTI, ms                                                     |           | 20                             |        |
|              | Coding type                                                 |           | TC                             |        |
|              | CRC, bit                                                    |           | 16                             |        |
|              | Max number of bits/TTI after channel coding                 |           | 4 284                          |        |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 2 142                          |        |
|              | RM attribute                                                |           | 130 to 170                     |        |

#### 6.10.2.4.1.57.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.57.1.1.3 TFCS

|           |                                    |
|-----------|------------------------------------|
| TFCS size | 10                                 |
| TFCS      | (64 kbps RAB + 64 kbps RAB, DCCH)= |

|  |                                                                                                                 |
|--|-----------------------------------------------------------------------------------------------------------------|
|  | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0),<br>(TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
|--|-----------------------------------------------------------------------------------------------------------------|

## 6.10.2.4.1.57.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.92  |

## 6.10.2.4.1.57.2 Downlink

## 6.10.2.4.1.57.2.1 Transport channel parameters

## 6.10.2.4.1.57.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB                           | RAB                            | RAB    |
|--------------|---------------------------------------------|--------------------------------|--------|
| RLC          | Logical channel type                        | DTCH                           | DTCH   |
|              | RLC mode                                    | AM                             | AM     |
|              | Payload sizes, bit                          | 320                            | 320    |
|              | Max data rate, bps                          | 64 000                         | 64 000 |
|              | AMD PDU header, bit                         | 16                             | 16     |
| MAC          | MAC header, bit                             | 4                              | 4      |
|              | MAC multiplexing                            | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                   | DCH                            |        |
|              | TB sizes, bit                               | 340                            |        |
|              | TFS                                         | TF0, bits                      | 0x340  |
|              |                                             | TF1, bits                      | 1x340  |
|              |                                             | TF2, bits                      | 2x340  |
|              |                                             | TF3, bits                      | 3x340  |
|              |                                             | TF4, bits                      | 4x340  |
|              | TTI, ms                                     | 20                             |        |
|              | Coding type                                 | TC                             |        |
|              | CRC, bit                                    | 16                             |        |
|              | Max number of bits/TTI after channel coding | 4 284                          |        |
|              | RM attribute                                | 130 to 170                     |        |

## 6.10.2.4.1.57.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.57.2.1.3 TFCS

|           |                                                                                                                                                       |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                    |
| TFCS      | (64 kbps RAB + 64 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0),<br>(TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |

## 6.10.2.4.1.57.2.2 Physical channel parameters

|               |                  |                           |
|---------------|------------------|---------------------------|
| DPCH Downlink | DTX position     | Flexible                  |
|               | Spreading factor | 32                        |
|               | DPCCH            | Number of TFCI bits/slot  |
|               |                  | 8                         |
|               |                  | Number of TPC bits/slot   |
|               |                  | 4                         |
|               | DPDCH            | Number of Pilot bits/slot |
|               |                  | 8                         |
|               |                  | Number of data bits/slot  |
|               |                  | 140                       |
|               |                  | Number of data bits/frame |
|               |                  | 2 100                     |

6.10.2.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.58.1 Uplink

6.10.2.4.1.58.1.1 Transport channel parameters

6.10.2.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

|              |                                                             |            |        |
|--------------|-------------------------------------------------------------|------------|--------|
| Higher layer | RAB/Signalling RB                                           |            | RAB    |
| RLC          | Logical channel type                                        |            | DTCH   |
|              | RLC mode                                                    |            | AM     |
|              | Payload sizes, bit                                          |            | 320    |
|              | Max data rate, bps                                          |            | 16 000 |
|              | AMD PDU header, bit                                         |            | 16     |
| MAC          | MAC header, bit                                             |            | 0      |
|              | MAC multiplexing                                            |            | N/A    |
| Layer 1      | TrCH type                                                   |            | DCH    |
|              | TB sizes, bit                                               |            | 336    |
|              | TFS                                                         | TF0, bits  | 0x336  |
|              |                                                             | TF1, bits  | 1x336  |
|              | TTI, ms                                                     |            | 20     |
|              | Coding type                                                 |            | TC     |
|              | CRC, bit                                                    |            | 16     |
|              | Max number of bits/TTI after channel coding                 |            | 1 068  |
|              | Uplink: Max number of bits/radio frame before rate matching |            | 534    |
| RM attribute |                                                             | 135 to 175 |        |

6.10.2.4.1.58.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.1.1.2.

6.10.2.4.1.58.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.58.1.1.4 TFCS

|           |                                                                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 8                                                                                                                                                             |
| TFCS      | (16 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0),<br>(TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1) |

6.10.2.4.1.58.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 32    |
|             | Max number of DPDCH data bits/radio frame | 1 200 |
|             | Puncturing Limit                          | 1.0   |

6.10.2.4.1.58.2 Downlink

6.10.2.4.1.58.2.1 Transport channel parameters

6.10.2.4.1.58.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB    | RAB    |
|--------------|----------------------|--------|
| RLC          | Logical channel type | DTCH   |
|              | RLC mode             | AM     |
|              | Payload sizes, bit   | 640    |
|              | Max data rate, bps   | 64 000 |
|              | AM PDU header, bit   | 16     |
| MAC          | MAC header, bit      | 0      |
|              | MAC multiplexing     | N/A    |
| Layer 1      | TrCH type            | DCH    |

|  |                                             |           |            |
|--|---------------------------------------------|-----------|------------|
|  | TB sizes, bit                               |           | 656        |
|  | TFS                                         | TF0, bits | 0x656      |
|  |                                             | TF1, bits | 1x656      |
|  |                                             | TF2, bits | 2x656      |
|  |                                             | TF3, bits | 4x656      |
|  | TTI, ms                                     |           | 40         |
|  | Coding type                                 |           | TC         |
|  | CRC, bit                                    |           | 16         |
|  | Max number of bits/TTI after channel coding |           | 8 076      |
|  | RM attribute                                |           | 125 to 165 |

#### 6.10.2.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.2.1.2.

#### 6.10.2.4.1.58.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.58.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 16                                                                                                                                                                                                                                                                                          |
| TFCS      | (64 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0),<br>(TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0),<br>(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1),<br>(TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1) |

#### 6.10.2.4.1.58.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

#### 6.10.2.4.1.58a Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.2.4.1.58a.1 Uplink

#### 6.10.2.4.1.58a.1.1 Transport channel parameters

#### 6.10.2.4.1.58a.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

See clause 6.10.2.4.1.58.1.1.1.

#### 6.10.2.4.1.58a.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.1.1.2.

#### 6.10.2.4.1.58a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.58a.1.1.4 TFCS

See clause 6.10.2.4.1.58.1.1.4.

#### 6.10.2.4.1.58a.1.2 Physical channel parameters

See clause 6.10.2.4.1.58.1.2.



## 6.10.2.4.1.58a.2 Downlink

## 6.10.2.4.1.58a.2.1 Transport channel parameters

## 6.10.2.4.1.58a.2.1.1 Transport channel parameters for Streaming / unknown / DL:128 kbps / PS RAB

|              |                                             |            |
|--------------|---------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                           | RAB        |
| RLC          | Logical channel type                        | DTCH       |
|              | RLC mode                                    | AM         |
|              | Payload sizes, bit                          | 640        |
|              | Max data rate, bps                          | 128 000    |
|              | AM PDU header, bit                          | 16         |
| MAC          | MAC header, bit                             | 0          |
|              | MAC multiplexing                            | N/A        |
| Layer 1      | TrCH type                                   | DCH        |
|              | TB sizes, bit                               | 656        |
|              | TFS                                         | TF0, bits  |
|              |                                             | TF1, bits  |
|              |                                             | TF2, bits  |
|              |                                             | TF3, bits  |
|              |                                             | TF4, bits  |
|              | TTI, ms                                     | 20         |
|              | Coding type                                 | TC         |
|              | CRC, bit                                    | 16         |
|              | Max number of bits/TTI after channel coding | 8 076      |
|              | RM attribute                                | 125 to 165 |

## 6.10.2.4.1.58a.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.2.1.2.

## 6.10.2.4.1.58a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.58a.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20                                                                                                                                                                                                                                                                                                                                                        |
| TFCS      | (128 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF4,TF0,TF0),<br>(TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF4,TF1,TF0),<br>(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (TF4,TF0,TF1),<br>(TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1), (TF4,TF1,TF1), |

## 6.10.2.4.1.58a.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 16       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 288      |
|               |                  | Number of data bits/frame | 4 320    |

## 6.10.2.4.1.59 Conversational / speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.59.1 Uplink

## 6.10.2.4.1.59.1.1 Transport channel parameters

## 6.10.2.4.1.59.1.1.1 Transport channel parameters for Conversational / speech / UL:42.8 kbps / PS RAB

|              |                                                             |           |               |
|--------------|-------------------------------------------------------------|-----------|---------------|
| Higher layer | RAB/Signalling RB                                           |           | RAB           |
| PDCP         | PDCP header size, bit                                       |           | 8             |
| RLC          | Logical channel type                                        |           | DTCH          |
|              | RLC mode                                                    |           | UM            |
|              | Payload sizes, bit                                          |           | 920, 304, 96  |
|              | Max data rate, bps                                          |           | 46 000        |
|              | UMD PDU header, bit                                         |           | 8             |
| MAC          | MAC header, bit                                             |           | 0             |
|              | MAC multiplexing                                            |           | N/A           |
| Layer 1      | TrCH type                                                   |           | DCH           |
|              | TB sizes, bit                                               |           | 928, 312, 104 |
|              | TFS                                                         | TF0, bits | 0x928         |
|              |                                                             | TF1, bits | 1x104         |
|              |                                                             | TF2, bits | 1x312         |
|              |                                                             | TF3, bits | 1x928         |
|              | TTI, ms                                                     |           | 20            |
|              | Coding type                                                 |           | TC            |
|              | CRC, bit                                                    |           | 16            |
|              | Max number of bits/TTI after channel coding                 |           | 2 844         |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 1 422         |
|              | RM attribute                                                |           | 180 to 220    |

#### 6.10.2.4.1.59.1.1.2 Transport channel parameters for Interactive / UL:16kbps / PS RAB + UL:16 kbps / PS RAB

|              |                                                             |           |                                |        |
|--------------|-------------------------------------------------------------|-----------|--------------------------------|--------|
| Higher layer | RAB/Signalling RB                                           |           | RAB                            | RAB    |
| RLC          | Logical channel type                                        |           | DTCH                           | DTCH   |
|              | RLC mode                                                    |           | AM                             | AM     |
|              | Payload sizes, bit                                          |           | 320                            | 320    |
|              | Max data rate, bps                                          |           | 16 000                         | 16 000 |
|              | AMD PDU header, bit                                         |           | 16                             | 16     |
| MAC          | MAC header, bit                                             |           | 4                              | 4      |
|              | MAC multiplexing                                            |           | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                                   |           | DCH                            |        |
|              | TB sizes, bit                                               |           | 340                            |        |
|              | TFS                                                         | TF0, bits | 0x340                          |        |
|              |                                                             | TF1, bits | 1x340                          |        |
|              |                                                             | TF2, bits | 2X340                          |        |
|              | TTI, ms                                                     |           | 40                             |        |
|              | Coding type                                                 |           | TC                             |        |
|              | CRC, bit                                                    |           | 16                             |        |
|              | Max number of bits/TTI after channel coding                 |           | 2 148                          |        |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 537                            |        |
|              | RM attribute                                                |           | 135 to 175                     |        |

#### 6.10.2.4.1.59.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.59.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| TFCS      | (42.8 kbps Conversational RAB, Interactive 16kbps+16kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1)<br>(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1)<br>(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2,TF1, TF0), (TF2, TF1,TF1), (TF2,TF2, TF0), (TF2,TF2, TF1)<br>(TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1) |

#### 6.10.2.4.1.59.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.76  |

## 6.10.2.4.1.59.2 Downlink

## 6.10.2.4.1.59.2.1 Transport channel parameters

## 6.10.2.4.1.59.2.1.1 Transport channel parameters for Conversational / speech / DL:42.8 kbps / PS RAB

|              |                                             |               |
|--------------|---------------------------------------------|---------------|
| Higher layer | RAB/Signalling RB                           | RAB           |
| PDCP         | PDCP header size, bit                       | 8             |
| RLC          | Logical channel type                        | DTCH          |
|              | RLC mode                                    | UM            |
|              | Payload sizes, bit                          | 920, 304, 96  |
|              | Max data rate, bps                          | 46 000        |
|              | UMD PDU header, bit                         | 8             |
| MAC          | MAC header, bit                             | 0             |
|              | MAC multiplexing                            | N/A           |
| Layer 1      | TrCH type                                   | DCH           |
|              | TB sizes, bit                               | 928, 312, 104 |
|              | TFS                                         | TF0, bits     |
|              |                                             | TF1, bits     |
|              |                                             | TF2, bits     |
|              |                                             | TF3, bits     |
|              | TTI, ms                                     | 20            |
|              | Coding type                                 | TC            |
|              | CRC, bit                                    | 16            |
|              | Max number of bits/TTI after channel coding | 2 844         |
|              | RM attribute                                | 180 to 220    |

## 6.10.2.4.1.59.2.1.2 Transport channel parameters for Interactive / DL:16kbps / PS RAB + DL:16 kbps / PS RAB

|              |                                             |                                |        |
|--------------|---------------------------------------------|--------------------------------|--------|
| Higher layer | RAB/Signalling RB                           | RAB                            | RAB    |
| RLC          | Logical channel type                        | DTCH                           | DTCH   |
|              | RLC mode                                    | AM                             | AM     |
|              | Payload sizes, bit                          | 320                            | 320    |
|              | Max data rate, bps                          | 16 000                         | 16 000 |
|              | AMD PDU header, bit                         | 16                             | 16     |
| MAC          | MAC header, bit                             | 4                              | 4      |
|              | MAC multiplexing                            | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                   | DCH                            |        |
|              | TB sizes, bit                               | 340                            |        |
|              | TFS                                         | TF0, bits                      | 0x340  |
|              |                                             | TF1, bits                      | 1x340  |
|              |                                             | TF2, bits                      | 2x340  |
|              | TTI, ms                                     | 40                             |        |
|              | Coding type                                 | TC                             |        |
|              | CRC, bit                                    | 16                             |        |
|              | Max number of bits/TTI after channel coding | 2 148                          |        |
|              | RM attribute                                | 135 to 175                     |        |

## 6.10.2.4.1.59.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.59.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| TFCS      | (42.8 kbps Conversational RAB, Interactive 16kbps+16kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1)<br>(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1)<br>(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2,TF1, TF0), (TF2, TF1,TF1), (TF2,TF2, TF0), (TF2,TF2, TF1)<br>(TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1) |

## 6.10.2.4.1.59.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

6.10.2.4.1.60 Conversational / speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.60.1 Uplink

6.10.2.4.1.60.1.1 Transport channel parameters

6.10.2.4.1.60.1.1.1 Transport channel parameters for Conversational / speech / UL:42.8 kbps / PS RAB

|              |                                                             |           |               |
|--------------|-------------------------------------------------------------|-----------|---------------|
| Higher layer | RAB/Signalling RB                                           |           | RAB           |
| PDPC         | PDPC header size, bit                                       |           | 8             |
| RLC          | Logical channel type                                        |           | DTCH          |
|              | RLC mode                                                    |           | UM            |
|              | Payload sizes, bit                                          |           | 920, 304, 96  |
|              | Max data rate, bps                                          |           | 46 000        |
|              | UMD PDU header, bit                                         |           | 8             |
| MAC          | MAC header, bit                                             |           | 0             |
|              | MAC multiplexing                                            |           | N/A           |
| Layer 1      | TrCH type                                                   |           | DCH           |
|              | TB sizes, bit                                               |           | 928, 312, 104 |
|              | TFS                                                         | TF0, bits | 0x928         |
|              |                                                             | TF1, bits | 1x104         |
|              |                                                             | TF2, bits | 1x312         |
|              |                                                             | TF3, bits | 1x928         |
|              | TTI, ms                                                     |           | 20            |
|              | Coding type                                                 |           | TC            |
|              | CRC, bit                                                    |           | 16            |
|              | Max number of bits/TTI after channel coding                 |           | 2 844         |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 1 422         |
|              | RM attribute                                                |           | 180 to 220    |

6.10.2.4.1.60.1.1.2 Transport channel parameters for Interactive / UL:16kbps / PS RAB

See clause 6.10.2.4.1.23b.1.1.1

6.10.2.4.1.60.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.1.60.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| TFCS      | (42.8 kbps Conversational RAB, Interactive 16kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1)<br>(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1)<br>(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2,TF1, TF0), (TF2, TF1,TF1), (TF2,TF2, TF0), (TF2,TF2, TF1)<br>(TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1) |

6.10.2.4.1.60.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.76  |

## 6.10.2.4.1.60.2 Downlink

## 6.10.2.4.1.60.2.1 Transport channel parameters

## 6.10.2.4.1.60.2.1.1 Transport channel parameters for Conversational / speech / DL:42.8 kbps / PS RAB

|              |                                             |           |               |
|--------------|---------------------------------------------|-----------|---------------|
| Higher layer | RAB/Signalling RB                           |           | RAB           |
| PDCP         | PDCP header size, bit                       |           | 8             |
| RLC          | Logical channel type                        |           | DTCH          |
|              | RLC mode                                    |           | UM            |
|              | Payload sizes, bit                          |           | 920, 304, 96  |
|              | Max data rate, bps                          |           | 46 000        |
|              | UMD PDU header, bit                         |           | 8             |
| MAC          | MAC header, bit                             |           | 0             |
|              | MAC multiplexing                            |           | N/A           |
| Layer 1      | TrCH type                                   |           | DCH           |
|              | TB sizes, bit                               |           | 928, 312, 104 |
|              | TFS                                         | TF0, bits | 0x928         |
|              |                                             | TF1, bits | 1x104         |
|              |                                             | TF2, bits | 1x312         |
|              |                                             | TF3, bits | 1x928         |
|              | TTI, ms                                     |           | 20            |
|              | Coding type                                 |           | TC            |
|              | CRC, bit                                    |           | 16            |
|              | Max number of bits/TTI after channel coding |           | 2 844         |
|              | RM attribute                                |           | 180 to 220    |

## 6.10.2.4.1.60.2.1.2 Transport channel parameters for Interactive / DL:16kbps PS RAB

See clause 6.10.2.4.1.23b.2.1.1

## 6.10.2.4.1.60.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.60.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| TFCS      | (42.8 kbps Conversational RAB, Interactive 16kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1)<br>(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1)<br>(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2,TF1, TF0), (TF2, TF1,TF1), (TF2,TF2, TF0), (TF2,TF2, TF1)<br>(TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1) |

## 6.10.2.4.1.60.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

## 6.10.2.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.1.61.1 Uplink

## 6.10.2.4.1.61.1.1 Transport channel parameters

## 6.10.2.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

|              |                   |     |
|--------------|-------------------|-----|
| Higher layer | RAB/Signalling RB | RAB |
|--------------|-------------------|-----|

|              |                                                                                                                                                                                              |            |                         |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|
| RLC          | Logical channel type                                                                                                                                                                         |            | DTCH                    |
|              | RLC mode                                                                                                                                                                                     |            | UM                      |
|              | Payload sizes, bit                                                                                                                                                                           |            | 320                     |
|              | Max data rate, bps                                                                                                                                                                           |            | 8 000                   |
|              | UMD PDU header, bit                                                                                                                                                                          |            | 8                       |
| MAC          | MAC header, bit                                                                                                                                                                              |            | 0                       |
|              | MAC multiplexing                                                                                                                                                                             |            | N/A                     |
| Layer 1      | TrCH type                                                                                                                                                                                    |            | DCH                     |
|              | TB sizes, bit                                                                                                                                                                                |            | 328 (alt 0, 328) (note) |
|              | TFS                                                                                                                                                                                          | TF0, bits  | 0x328 (alt 1x0) (note)  |
|              |                                                                                                                                                                                              | TF1, bits  | 1x328                   |
|              | TTI, ms                                                                                                                                                                                      |            | 40                      |
|              | Coding type                                                                                                                                                                                  |            | TC                      |
|              | CRC, bit                                                                                                                                                                                     |            | 16                      |
|              | Max number of bits/TTI after channel coding                                                                                                                                                  |            | 1 044                   |
|              | Uplink: Max number of bits/radio frame before rate matching                                                                                                                                  |            | 261                     |
| RM attribute |                                                                                                                                                                                              | 135 to 175 |                         |
| NOTE:        | In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |            |                         |

#### 6.10.2.4.1.61.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.1.1.2

#### 6.10.2.4.1.61.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.61.1.1.4 TFCS

|           |                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 8                                                                                                                                                                                               |
| TFCS      | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |

#### 6.10.2.4.1.61.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 32    |
|             | Max number of DPDCH data bits/radio frame | 1 200 |
|             | Puncturing Limit                          | 1.0   |

#### 6.10.2.4.1.61.2 Downlink

#### 6.10.2.4.1.61.2.1 Transport channel parameters

#### 6.10.2.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

|              |                                             |           |                         |
|--------------|---------------------------------------------|-----------|-------------------------|
| Higher layer | RAB/Signalling RB                           |           | RAB                     |
| RLC          | Logical channel type                        |           | DTCH                    |
|              | RLC mode                                    |           | UM                      |
|              | Payload sizes, bit                          |           | 320                     |
|              | Max data rate, bps                          |           | 8 000                   |
|              | AMD PDU header, bit                         |           | 8                       |
| MAC          | MAC header, bit                             |           | 0                       |
|              | MAC multiplexing                            |           | N/A                     |
| Layer 1      | TrCH type                                   |           | DCH                     |
|              | TB sizes, bit                               |           | 328 (alt 0, 328) (note) |
|              | TFS                                         | TF0, bits | 0x328 (alt 1x0) (note)  |
|              |                                             | TF1, bits | 1x328                   |
|              | TTI, ms                                     |           | 40                      |
|              | Coding type                                 |           | TC                      |
|              | CRC, bit                                    |           | 16                      |
|              | Max number of bits/TTI after channel coding |           | 1 044                   |
|              | RM attribute                                |           | 135 to 175              |

NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in 3GPP TS 25.212 [14]).

6.10.2.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.2.1.2.

6.10.2.4.1.61.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.61.2.1.4 TFCS

|           |                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 8                                                                                                                                                                                               |
| TFCS      | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |

6.10.2.4.1.61.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 64       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 60       |
|               |                  | Number of data bits/frame | 900      |

- 6.10.2.4.1.62 Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH
- 6.10.2.4.1.62.1 Uplink
- 6.10.2.4.1.62.1.1 Transport channel parameters
- 6.10.2.4.1.62.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.65 8.85 6.6) kbps / CS RAB

| Higher layer                                                                                                                                                                                                                | RAB/Signalling RB                                           |           | RAB subflow #1                             | RAB subflow #2 | RAB subflow #3<br>(note 2) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------|--------------------------------------------|----------------|----------------------------|
| RLC                                                                                                                                                                                                                         | Logical channel type                                        |           | DTCH                                       |                |                            |
|                                                                                                                                                                                                                             | RLC mode                                                    |           | TM                                         | TM             | TM                         |
|                                                                                                                                                                                                                             | Payload sizes, bit                                          |           | 40, 54, 64, 72<br>(alt. 0, 40, 54, 64, 72) | 78, 113, 181   | 60                         |
|                                                                                                                                                                                                                             | Max data rate, bps                                          |           | 12 650                                     |                |                            |
|                                                                                                                                                                                                                             | TrD PDU header, bit                                         |           | 0                                          |                |                            |
| MAC                                                                                                                                                                                                                         | MAC header, bit                                             |           | 0                                          |                |                            |
|                                                                                                                                                                                                                             | MAC multiplexing                                            |           | N/A                                        |                |                            |
| Layer 1                                                                                                                                                                                                                     | TrCH type                                                   |           | DCH                                        | DCH            | DCH                        |
|                                                                                                                                                                                                                             | TB sizes, bit                                               |           | 40, 54, 64, 72<br>(alt. 0, 40, 54, 64, 72) | 78, 113, 181   | 60                         |
|                                                                                                                                                                                                                             | TFS                                                         | TF0, bits | 0x72(alt. 1x0)<br>(note 1)                 | 0x181          | 0x60                       |
|                                                                                                                                                                                                                             |                                                             | TF1, bits | 1x40                                       | 1x78           | N/A                        |
|                                                                                                                                                                                                                             |                                                             | TF2 bits  | 1x54                                       | 1x113          | N/A                        |
|                                                                                                                                                                                                                             |                                                             | TF3, bits | 1x64                                       | 1x181          | N/A                        |
|                                                                                                                                                                                                                             |                                                             | TF4, bits | 1x72                                       | N/A            | N/A                        |
|                                                                                                                                                                                                                             | TTI, ms                                                     |           | 20                                         | 20             | 20                         |
|                                                                                                                                                                                                                             | Coding type                                                 |           | CC 1/3                                     | CC 1/3         | CC 1/3                     |
|                                                                                                                                                                                                                             | CRC, bit                                                    |           | 12                                         | N/A            | N/A                        |
|                                                                                                                                                                                                                             | Max number of bits/TTI after channel coding                 |           | 276                                        | 567            | 0                          |
|                                                                                                                                                                                                                             | Uplink: Max number of bits/radio frame before rate matching |           | 138                                        | 284            | 0                          |
|                                                                                                                                                                                                                             | RM attribute                                                |           | 180 to 220                                 | 170 to 210     | 256                        |
| NOTE 1: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                                             |           |                                            |                |                            |
| NOTE 2: RAB subflow #3 does not exist in lu interface. UTRAN establishes this additional "dummy" subflow when the RAB for Wideband AMR is assigned.                                                                         |                                                             |           |                                            |                |                            |

- 6.10.2.4.1.62.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

- 6.10.2.4.1.62.1.1.3 TFCS

|           |                                                                                                                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                                                                                                                          |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow #3, DCCH)=<br>(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),<br>(TF4,TF3,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1),<br>(TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1) |



## 6.10.2.4.1.62.1.1.4 TFC subset list

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFC subset list size | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| TFC subset list      | <p>0 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1)},</p> <p>1 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1)},</p> <p>2 = {(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1)}</p> |

## 6.10.2.4.1.62.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 64   |
|             | Max number of DPDCH data bits/radio frame | 600  |
|             | Puncturing Limit                          | 0.84 |

## 6.10.2.4.1.62.2 Downlink

## 6.10.2.4.1.62.2.1 Transport channel parameters

## 6.10.2.4.1.62.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.65 8.85 6.6) kbps / CS RAB

| Higher layer                                                                                                                                                                             | RAB/Signalling RB                           |           | RAB subflow #1    | RAB subflow #2 | RAB subflow #3<br>(note 3) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------|-------------------|----------------|----------------------------|
| RLC                                                                                                                                                                                      | Logical channel type                        |           | DTCH              |                |                            |
|                                                                                                                                                                                          | RLC mode                                    |           | TM                | TM             | TM                         |
|                                                                                                                                                                                          | Payload sizes, bit                          |           | 0, 40, 54, 64, 72 | 78, 113, 181   | 60                         |
|                                                                                                                                                                                          | Max data rate, bps                          |           | 12 650            |                |                            |
|                                                                                                                                                                                          | TrD PDU header, bit                         |           | 0                 |                |                            |
| MAC                                                                                                                                                                                      | MAC header, bit                             |           | 0                 |                |                            |
|                                                                                                                                                                                          | MAC multiplexing                            |           | N/A               |                |                            |
| Layer 1                                                                                                                                                                                  | TrCH type                                   |           | DCH               | DCH            | DCH                        |
|                                                                                                                                                                                          | TB sizes, bit                               |           | 0, 40, 54, 64, 72 | 78, 113, 181   | 60                         |
|                                                                                                                                                                                          | TFS (note 1)                                | TF0, bits | 1x0 (note 2)      | 0x181          | 0x60                       |
|                                                                                                                                                                                          |                                             | TF1, bits | 1x40              | 1x78           | N/A                        |
|                                                                                                                                                                                          |                                             | TF2, bits | 1x54              | 1x113          | N/A                        |
|                                                                                                                                                                                          |                                             | TF3, bits | 1x64              | 1x181          | N/A                        |
|                                                                                                                                                                                          |                                             | TF4, bits | 1x72              | N/A            | N/A                        |
|                                                                                                                                                                                          | TTI, ms                                     |           | 20                | 20             | 20                         |
|                                                                                                                                                                                          | Coding type                                 |           | CC 1/3            | CC 1/3         | CC 1/3                     |
|                                                                                                                                                                                          | CRC, bit                                    |           | 12                | N/A            | N/A                        |
|                                                                                                                                                                                          | Max number of bits/TTI after channel coding |           | 276               | 567            | 0                          |
|                                                                                                                                                                                          | RM attribute                                |           | 180 to 220        | 170 to 210     | 256                        |
| NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in 3GPP TS 25.212 [14]).                                                            |                                             |           |                   |                |                            |
| NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.212 [14]). |                                             |           |                   |                |                            |
| NOTE 2: RAB subflow #3 does not exist in lu interface. UTRAN establishes this additional "dummy" subflow when the RAB for Wideband AMR is assigned                                       |                                             |           |                   |                |                            |

## 6.10.2.4.1.62.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.62.2.1.3 Transport channel parameters for DL:0.15 kbps SRB#5 for DCCH

|              |                      |       |
|--------------|----------------------|-------|
| Higher layer | RAB/signalling RB    | SRB#5 |
|              | User of Radio Bearer | RRC   |
| RLC          | Logical channel type | DCCH  |
|              | RLC mode             | TM    |
|              | Payload sizes, bit   | 3     |

|                                                                                         |                                             |           |                      |
|-----------------------------------------------------------------------------------------|---------------------------------------------|-----------|----------------------|
|                                                                                         | Max data rate, bps                          |           | 150                  |
|                                                                                         | TrD PDU header, bit                         |           | 0                    |
|                                                                                         | MAC header, bit                             |           | 0                    |
| MAC                                                                                     | MAC multiplexing                            |           | N/A                  |
| Layer 1                                                                                 | TrCH type                                   |           | DCH                  |
|                                                                                         | TB sizes, bit                               |           | 3 (alt 0, 3) (note)  |
|                                                                                         | TFS                                         | TF0, bits | 0x3 (alt 1x0) (note) |
|                                                                                         |                                             | TF1, bits | 1x3                  |
|                                                                                         | TTI, ms                                     |           | 20                   |
|                                                                                         | Coding type                                 |           | CC 1/3               |
|                                                                                         | CRC, bit                                    |           | 8                    |
|                                                                                         | Max number of bits/TTI before rate matching |           | 57                   |
|                                                                                         | RM attribute                                |           | 155 to 256           |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. |                                             |           |                      |

## 6.10.2.4.1.62.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH 3.4, DCCH 0.15)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0TF0,TF0), (TF0,TF0,TF0,TF1,TF0),<br>(TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0),<br>(TF4,TF3,TF0,TF1,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1) |

## 6.10.2.4.1.62.2.2 Physical channel parameters

|               |                  |                           |       |
|---------------|------------------|---------------------------|-------|
| DPCH Downlink | DTX position     |                           | Fixed |
|               | Spreading factor |                           | 128   |
|               | DPCCH            | Number of TFCI bits/slot  | 0     |
|               |                  | Number of TPC bits/slot   | 2     |
|               |                  | Number of Pilot bits/slot | 4     |
|               | DPDCH            | Number of data bits/slot  | 34    |
|               |                  | Number of data bits/frame | 510   |

6.10.2.4.1.63 Interactive or background / UL:64 DL:768 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.63.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.63.2 Downlink

6.10.2.4.1.63.2.1 Transport channel parameters

6.10.2.4.1.63.2.1.1 Transport channel parameters for Interactive or background / DL:768 kbps / PS RAB

|              |                      |         |
|--------------|----------------------|---------|
| Higher layer | RAB/Signalling RB    | RAB     |
| RLC          | Logical channel type | DTCH    |
|              | RLC mode             | AM      |
|              | Payload sizes, bit   | 320     |
|              | Max data rate, bps   | 768 000 |
|              | AMD PDU header, bit  | 16      |
| MAC          | MAC header, bit      | 0       |
|              | MAC multiplexing     | N/A     |

|         |                                             |            |                     |
|---------|---------------------------------------------|------------|---------------------|
| Layer 1 | TrCH type                                   |            | DCH                 |
|         | TB sizes, bit                               |            | 336                 |
|         | TFS                                         | TF0, bits  | 0x336               |
|         |                                             | TF1, bits  | 1x336               |
|         |                                             | TF2, bits  | 2x336               |
|         |                                             | TF3, bits  | 4x336               |
|         |                                             | TF4, bits  | 8x336               |
|         |                                             | TF5, bits  | 12x336              |
|         |                                             | TF6, bits  | 16x336              |
|         |                                             | TF7, bits  | 20x336              |
|         |                                             | TF8, bits  | 24x336              |
|         |                                             | TF9, bits  | N/A (alt 28x336)    |
|         |                                             | TF10, bits | N/A (alt 32x336)    |
|         |                                             | TF11, bits | N/A (alt 36x336)    |
|         |                                             | TF12, bits | N/A (alt 40x336)    |
|         |                                             | TF13, bits | N/A (alt 44x336)    |
|         |                                             | TF14, bits | N/A (alt 48x336)    |
|         | TTI, ms                                     |            | 10 (alt 20)         |
|         | Coding type                                 |            | TC                  |
|         | CRC, bit                                    |            | 16                  |
|         | Max number of bits/TTI after channel coding |            | 25 368 (alt 50 736) |
|         | RM attribute                                |            | 110 to 150          |

#### 6.10.2.4.1.63.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.63.2.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 18 (alt. 30)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| TFCS      | (768 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1)<br>(alt . (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1) (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1)) |

#### 6.10.2.4.1.63.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 8        |
|               | Number of DPCH   |                           | 2        |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 8        |
|               |                  | Number of Pilot bits/slot | 16       |
|               | DPDCH            | Number of data bits/slot  | 608      |
|               |                  | Number of data bits/frame | 9 120    |

#### 6.10.2.4.2 Combinations on PDSCH and DPCH

##### 6.10.2.4.2.1 Void

##### 6.10.2.4.2.2 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

##### 6.10.2.4.2.2.1 Uplink

See clause 6.10.2.4.1.26.1.

##### 6.10.2.4.2.2.2 Downlink

## 6.10.2.4.2.2.1 Transport channel parameters

## 6.10.2.4.2.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

|              |                                             |           |                                                        |
|--------------|---------------------------------------------|-----------|--------------------------------------------------------|
| Higher layer | RAB/Signalling RB                           |           | RAB                                                    |
| RLC          | Logical channel type                        |           | DTCH                                                   |
|              | RLC mode                                    |           | AM                                                     |
|              | Payload sizes, bit                          |           | 320                                                    |
|              | Max data rate, bps                          |           | 384 000                                                |
|              | AMD PDU header, bit                         |           | 16                                                     |
| MAC          | MAC header, bit                             |           | 18                                                     |
|              | MAC multiplexing                            |           | Logical channel multiplexing on a frame by frame basis |
| Layer 1      | TrCH type                                   |           | DSCH                                                   |
|              | TB sizes, bit                               |           | 354                                                    |
|              | TFS                                         | TF0, bits | 0x354                                                  |
|              |                                             | TF1, bits | 1x354                                                  |
|              |                                             | TF2, bits | 2x354                                                  |
|              |                                             | TF3, bits | 4 x354                                                 |
|              |                                             | TF4, bits | 8 x354                                                 |
|              |                                             | TF5, bits | 12 x354                                                |
|              |                                             | TF6, bits | N/A (alt. 16x354)                                      |
|              |                                             | TF7, bits | N/A (alt. 20x354)                                      |
|              |                                             | TF8, bits | N/A (alt. 24x354)                                      |
|              | TTI, ms                                     |           | 10 (alt. 20)                                           |
|              | Coding type                                 |           | TC                                                     |
|              | CRC, bit                                    |           | 16                                                     |
|              | Max number of bits/TTI after channel coding |           | 13 332 (alt. 26 664)                                   |
|              | RM attribute                                |           | 110 to 150                                             |

## 6.10.2.4.2.2.1.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.2.2.1.3 TFCS

|                                        |           |                                                                                                   |
|----------------------------------------|-----------|---------------------------------------------------------------------------------------------------|
| PDSCH                                  | TFCS size | 6 (alt.9)                                                                                         |
|                                        | TFCS      | 384 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5<br>(alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8) |
| DPCH Downlink<br>associated with PDSCH | TFCS size | 2                                                                                                 |
|                                        | TFCS      | SRBs for DCCH = TF0, TF1                                                                          |

## 6.10.2.4.2.2.2 Physical channel parameters

|                                           |                          |                           |                                                            |  |
|-------------------------------------------|--------------------------|---------------------------|------------------------------------------------------------|--|
| PDSCH                                     | RAB or SRB, TrCh         |                           | <b>Interactive or background / 384 kbps / PS RAB, DSCH</b> |  |
|                                           | DTX position             |                           | N/A (SingleTrCH)                                           |  |
|                                           | Minimum spreading factor |                           | 8                                                          |  |
| DPCH Downlink<br>associated with<br>PDSCH | RAB or SRB, TrCh         |                           | <b>3.4 kbps SRB for DCCH, DCH</b>                          |  |
|                                           | DTX position             |                           | N/A (SingleTrCH)                                           |  |
|                                           | Spreading factor         |                           | 256                                                        |  |
|                                           | DPCCH                    | Number of TFCI bits/slot  | 2                                                          |  |
|                                           |                          | Number of TPC bits/slot   | 2                                                          |  |
|                                           |                          | Number of Pilot bits/slot | 4                                                          |  |
|                                           | DPDCH                    | Number of data bits/slot  | 12                                                         |  |
|                                           |                          | Number of data bits/frame | 180                                                        |  |

## 6.10.2.4.2.3 Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.10.2.4.2.3.1 Uplink

See clause 6.10.2.4.1.26.1.

## 6.10.2.4.2.3.2 Downlink

## 6.10.2.4.2.3.2.1 Transport channel parameters

## 6.10.2.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS RAB

|              |                                             |            |                                                        |
|--------------|---------------------------------------------|------------|--------------------------------------------------------|
| Higher layer | RAB/Signalling RB                           |            | RAB                                                    |
| RLC          | Logical channel type                        |            | DTCH                                                   |
|              | RLC mode                                    |            | AM                                                     |
|              | Payload sizes, bit                          |            | 640                                                    |
|              | Max data rate, bps                          |            | 2 048 000                                              |
|              | AMD PDU header, bit                         |            | 16                                                     |
| MAC          | MAC header, bit                             |            | 18                                                     |
|              | MAC multiplexing                            |            | Logical channel multiplexing on a frame by frame basis |
| Layer 1      | TrCH type                                   |            | DSCH                                                   |
|              | TB sizes, bit                               |            | 674                                                    |
|              | TFS                                         | TF0, bits  | 0x674                                                  |
|              |                                             | TF1, bits  | 1x674                                                  |
|              |                                             | TF2, bits  | 2x674                                                  |
|              |                                             | TF3, bits  | 4 x674                                                 |
|              |                                             | TF4, bits  | 8 x674                                                 |
|              |                                             | TF5, bits  | 12x674                                                 |
|              |                                             | TF6, bits  | 16x674                                                 |
|              |                                             | TF7, bits  | 20x674                                                 |
|              |                                             | TF8, bits  | 24x674                                                 |
|              |                                             | TF9, bits  | 28x674                                                 |
|              |                                             | TF10, bits | 32x674                                                 |
|              |                                             | TF11, bits | N/A (alt. 36x674)                                      |
|              |                                             | TF12, bits | N/A (alt. 40x674)                                      |
|              |                                             | TF13, bits | N/A (alt. 44x674)                                      |
|              |                                             | TF14, bits | N/A (alt. 48x674)                                      |
|              |                                             | TF15, bits | N/A (alt. 52x674)                                      |
|              |                                             | TF16, bits | N/A (alt. 56x674)                                      |
|              |                                             | TF17, bits | N/A (alt. 60x674)                                      |
|              |                                             | TF18, bits | N/A (alt. 64x674)                                      |
|              | TTI, ms                                     |            | 10 (alt. 20)                                           |
|              | Coding type                                 |            | TC                                                     |
|              | CRC, bit                                    |            | 16                                                     |
|              | Max number of bits/TTI after channel coding |            | 66 300 (alt. 132 588)                                  |
|              | RM attribute                                |            | 130 to 170                                             |

## 6.10.2.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.2.3.2.1.3 TFCS

|                                           |           |                                                                                                                                                                                                |
|-------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PDSCH                                     | TFCS size | 11 (alt.19)                                                                                                                                                                                    |
|                                           | TFCS      | 2 048 kbps RAB =<br>TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10<br>(alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13,<br>TF14, TF15, TF16, TF17, TF18) |
| DPCH Downlink<br>associated with<br>PDSCH | TFCS size | 2                                                                                                                                                                                              |
|                                           | TFCS      | SRBs for DCCH = TF0, TF1                                                                                                                                                                       |

## 6.10.2.4.2.3.2.2 Physical channel parameters

|                                              |                          |                          |                                                              |
|----------------------------------------------|--------------------------|--------------------------|--------------------------------------------------------------|
| PDSCH                                        | RAB or SRB, TrCh         |                          | <b>Interactive or background / 2 048 kbps / PS RAB, DSCH</b> |
|                                              | DTX position             |                          | N/A (SingleTrCH)                                             |
|                                              | Minimum spreading factor |                          | 4                                                            |
| DPCH<br>Downlink<br>associated<br>with PDSCH | RAB or SRB, TrCh         |                          | 3.4 kbps SRB for DCCH, DCH                                   |
|                                              | DTX position             |                          | N/A (SingleTrCH)                                             |
|                                              | Spreading factor         |                          | 256                                                          |
|                                              | DPCCH                    | Number of TFCI bits/slot | 2                                                            |
|                                              |                          | Number of TPC bits/slot  | 2                                                            |

|  |       |                           |     |
|--|-------|---------------------------|-----|
|  | DPDCH | Number of Pilot bits/slot | 4   |
|  |       | Number of data bits/slot  | 12  |
|  |       | Number of data bits/frame | 180 |

6.10.2.4.2.4 Void

6.10.2.4.2.5 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.2.5.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.2.5.2 Downlink

6.10.2.4.2.5.2.1 Transport channel parameters

6.10.2.4.2.5.2.1.1 Transport channel parameters for Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.2.5.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

See clause 6.10.2.4.2.2.1.1.

6.10.2.4.2.5.2.1.3 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.2.5.2.1.4 TFCS

|                                     |           |                                                                                                                                                                                                |
|-------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PDSCH                               | TFCS size | 6 (alt.9)                                                                                                                                                                                      |
|                                     | TFCS      | 384 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5<br>(alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8)                                                                                              |
| DPCH Downlink associated with PDSCH | TFCS size | 6                                                                                                                                                                                              |
|                                     | TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH) =<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |

6.10.2.4.2.5.2.2 Physical channel parameters

|                                     |                          |                           |                                                                                           |  |
|-------------------------------------|--------------------------|---------------------------|-------------------------------------------------------------------------------------------|--|
| PDSCH                               | RAB or SRB, TrCh         |                           | <b>Interactive or background / 384 kbps / PS RAB, DSCH</b>                                |  |
|                                     | DTX position             |                           | N/A (SingleTrCh)                                                                          |  |
|                                     | Minimum spreading factor |                           | 8                                                                                         |  |
| DPCH Downlink associated with PDSCH | RAB or SRB, TrCh         |                           | Conversational / speech / 12.2 kbps / CS RAB, DCH<br><b>+ 3.4 kbps SRBs for DCCH. DCH</b> |  |
|                                     | DTX position             |                           | Fixed                                                                                     |  |
|                                     | Spreading factor         |                           | 128                                                                                       |  |
|                                     | DPCCH                    | Number of TFCI bits/slot  | 2                                                                                         |  |
|                                     |                          | Number of TPC bits/slot   | 2                                                                                         |  |
|                                     |                          | Number of Pilot bits/slot | 4                                                                                         |  |
|                                     | DPDCH                    | Number of data bits/slot  | 32                                                                                        |  |
|                                     |                          | Number of data bits/frame | 480                                                                                       |  |

6.10.2.4.2.6 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.2.6.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.2.6.2 Downlink

## 6.10.2.4.2.6.2.1 Transport channel parameters

## 6.10.2.4.2.6.2.1.1 Transport channel parameters for Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

## 6.10.2.4.2.6.2.1.2 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

See clause 6.10.2.4.2.3.2.1.1.

## 6.10.2.4.2.6.2.1.3 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.2.6.2.1.4 TFCS

|                                              |           |                                                                                                                                                                                          |
|----------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PDSCH                                        | TFCS size | 11 (alt.19)                                                                                                                                                                              |
|                                              | TFCS      | 2 048 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10 (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16, TF17, TF18)     |
| DPCH<br>Downlink<br>associated<br>with PDSCH | TFCS size | 6                                                                                                                                                                                        |
|                                              | TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH) = (TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |

## 6.10.2.4.2.6.2.2 Physical channel parameters

|                                                 |                          |                           |                                                                                            |
|-------------------------------------------------|--------------------------|---------------------------|--------------------------------------------------------------------------------------------|
| PDSCH                                           | RAB or SRB, TrCh         |                           | <b>Interactive or background / 2 048 kbps / PS RAB, DSCH</b>                               |
|                                                 | DTX position             |                           | N/A (SingleTrCH)                                                                           |
|                                                 | Minimum spreading factor |                           | 4                                                                                          |
| DPCH<br>Downlink<br>associated<br>with<br>PDSCH | RAB or SRB, TrCh         |                           | <b>Conversational / speech / 12.2 kbps / CS RAB, DCH<br/>+ 3.4 kbps SRBs for DCCH. DCH</b> |
|                                                 | DTX position             |                           | Fixed                                                                                      |
|                                                 | Spreading factor         |                           | 128                                                                                        |
|                                                 | DPCCH                    | Number of TFCI bits/slot  | 2                                                                                          |
|                                                 |                          | Number of TPC bits/slot   | 2                                                                                          |
|                                                 |                          | Number of Pilot bits/slot | 4                                                                                          |
|                                                 |                          | Number of data bits/slot  | 32                                                                                         |
|                                                 | DPDCH                    |                           | 480                                                                                        |

## 6.10.2.4.3 Combinations on SCCPCH

## 6.10.2.4.3.1 Stand-alone signalling RB for PCCH

## 6.10.2.4.3.1.1 Transport channel parameters

## 6.10.2.4.3.1.1.1 Transport channel parameter of SRB for PCCH

|              |                      |           |                     |
|--------------|----------------------|-----------|---------------------|
| Higher layer | RAB/signalling RB    |           | SRB                 |
|              | User of Radio Bearer |           | RRC                 |
| RLC          | Logical channel type |           | PCCH                |
|              | RLC mode             |           | TM                  |
|              | Payload sizes, bit   |           | 240 (alt. 80)       |
|              | Max data rate, bps   |           | 24 000 (alt. 8 000) |
|              | TrD PDU header, bit  |           | 0                   |
| MAC          | MAC header, bit      |           | 0                   |
|              | MAC multiplexing     |           | N/A                 |
| Layer 1      | TrCH type            |           | PCH                 |
|              | TB sizes, bit        |           | 240 (alt. 80)       |
|              | TFS                  | TF0, bts  | 0x240 (alt. 0x80)   |
|              |                      | TF1, bits | 1x240 (alt. 1x80)   |
|              | TTI, ms              |           | 10                  |
|              | Coding type          |           | CC 1/2              |
|              | CRC, bit             |           | 16                  |

|  |                                             |                |
|--|---------------------------------------------|----------------|
|  | Max number of bits/TTI before rate matching | 528 (alt. 208) |
|  | RM attribute                                | 210 to 250     |

## 6.10.2.4.3.1.1.2 TFCS

|           |                          |
|-----------|--------------------------|
| TFCS size | 2                        |
| TFCS      | SRBs for PCCH = TF0, TF1 |

## 6.10.2.4.3.1.2 Physical channel parameters

|        |                           |                |
|--------|---------------------------|----------------|
| SCCPCH | TFCS size                 | 2              |
|        | DTX position              | Fixed          |
|        | Spreading factor          | 128 (alt. 256) |
|        | Number of TFCI bits/slot  | 0              |
|        | Number of Pilot bits/slot | 0              |
|        | Number of data bits/slot  | 40 (alt. 20)   |
|        | Number of data bits/frame | 600 (alt. 300) |

## 6.10.2.4.3.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

## 6.10.2.4.3.2.1 Transport channel parameters

## 6.10.2.4.3.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

|              |                                             |           |                             |
|--------------|---------------------------------------------|-----------|-----------------------------|
| Higher layer | RAB/signalling RB                           |           | RAB                         |
|              | User of Radio Bearer                        |           | Interactive/ Background RAB |
| RLC          | Logical channel type                        |           | DTCH                        |
|              | RLC mode                                    |           | AM                          |
|              | Payload sizes, bit                          |           | 320                         |
|              | Max data rate, bps                          |           | 32 000                      |
|              | AMD PDU header, bit                         |           | 16                          |
| MAC          | MAC header, bit                             |           | 24                          |
|              | MAC multiplexing                            |           | N/A                         |
| Layer 1      | TrCH type                                   |           | FACH                        |
|              | TB sizes, bit                               |           | 360                         |
|              | TFS                                         | TF0, bits | 0x360                       |
|              |                                             | TF1, bits | 1x360                       |
|              | TTI, ms                                     |           | 10                          |
|              | Coding type                                 |           | TC                          |
|              | CRC, bit                                    |           | 16                          |
|              | Max number of bits/TTI before rate matching |           | 1 140                       |
|              | RM attribute                                |           | 110 to 150                  |

## 6.10.2.4.3.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

| Higher layer | RAB/signalling RB           | SRB#0                | SRB#1                                    | SRB#2                | SRB#3                | SRB#4                | SRB#5                |
|--------------|-----------------------------|----------------------|------------------------------------------|----------------------|----------------------|----------------------|----------------------|
|              | User of Radio Bearer        | RRC                  | RRC                                      | RRC                  | NAS_DT High prio     | NAS_DT Low prio      | RRC                  |
| RLC          | Logical channel type        | CCCH                 | DCCH                                     | DCCH                 | DCCH                 | DCCH                 | BCCH                 |
|              | RLC mode                    | UM                   | UM                                       | AM                   | AM                   | AM                   | TM                   |
|              | Payload sizes, bit          | 152                  | 136 or 120 (note)                        | 128                  | 128                  | 128                  | 166                  |
|              | Max data rate, bps          | 30 400 (alt. 45 600) | 27 200 or 24 000 (alt. 40 800 or 36 000) | 25 600 (alt. 38 400) | 25 600 (alt. 38 400) | 25 600 (alt. 38 400) | 33 200 (alt. 49 800) |
|              | AMD/UMD/TrD PDU header, bit | 8                    | 8                                        | 16                   | 16                   | 16                   | 0                    |
| MAC          | MAC header, bit             | 8                    | 24 or 40                                 | 24                   | 24                   | 24                   | 2                    |



|                                                                               |                                             |            |                                |       |       |                     |                    |       |
|-------------------------------------------------------------------------------|---------------------------------------------|------------|--------------------------------|-------|-------|---------------------|--------------------|-------|
| Higher layer                                                                  | RAB/signalling RB                           |            | SRB#0                          | SRB#1 | SRB#2 | SRB#3               | SRB#4              | SRB#5 |
|                                                                               | User of Radio Bearer                        |            | RRC                            | RRC   | RRC   | NAS_DT<br>High prio | NAS_DT<br>Low prio | RRC   |
|                                                                               | MAC multiplexing                            |            | 6 logical channel multiplexing |       |       |                     |                    |       |
| Layer 1                                                                       | TrCH type                                   |            | FACH                           |       |       |                     |                    |       |
|                                                                               | TB sizes, bit                               |            | 168                            |       |       |                     |                    |       |
|                                                                               | TFS                                         | TF0, bits  | 0x168                          |       |       |                     |                    |       |
|                                                                               |                                             | TF1, bits  | 1x168                          |       |       |                     |                    |       |
|                                                                               |                                             | TF2, bits  | 2x168                          |       |       |                     |                    |       |
|                                                                               |                                             | TF3, bits  | N/A (alt. 3x168)               |       |       |                     |                    |       |
|                                                                               | TTI, ms                                     |            | 10                             |       |       |                     |                    |       |
|                                                                               | Coding type                                 |            | CC 1/2                         |       |       |                     |                    |       |
|                                                                               | CRC, bit                                    |            | 16                             |       |       |                     |                    |       |
|                                                                               | Max number of bits/TTI before rate matching |            | 752 (alt. 1 136)               |       |       |                     |                    |       |
| RM attribute                                                                  |                                             | 200 to 240 |                                |       |       |                     |                    |       |
| NOTE: MAC header size and PLC payload size depend on use of U-RNTI or C-RNTI. |                                             |            |                                |       |       |                     |                    |       |

## 6.10.2.4.3.2.1.3 TFCS

|           |                                                                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 4 or 5, (alt. 4, 5 or 6)                                                                                                                                                                                    |
| TFCS      | (SRBs for CCCH/DCCH/BCCH, 32kbps RAB) =<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), [TF1, TF1] (note)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), [TF3, TF0] (note), (TF0, TF1), [TF1, TF1] (note)) |
| NOTE:     | These TFCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for TFC of (TF2, TF0).                                                                                      |

## 6.10.2.4.3.2.2 Physical channel parameters

|        |                           |          |
|--------|---------------------------|----------|
| SCCPCH | DTX position              | Flexible |
|        | Spreading factor          | 64       |
|        | Number of TFCI bits/slot  | 8        |
|        | Number of Pilot bits/slot | 0        |
|        | Number of data bits/slot  | 72       |
|        | Number of data bits/frame | 1 080    |

## 6.10.2.4.3.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

## 6.10.2.4.3.2a.1 Transport channel parameters

## 6.10.2.4.3.2a.1.1 Transport channel parameters for Interactive or background / 32 kbps / PS RAB + 32 kbps / PS RAB

|              |                                             |                                |        |
|--------------|---------------------------------------------|--------------------------------|--------|
| Higher layer | RAB/Signalling RB                           | RAB                            | RAB    |
| RLC          | Logical channel type                        | DTCH                           | DTCH   |
|              | RLC mode                                    | AM                             | AM     |
|              | Payload sizes, bit                          | 320                            | 320    |
|              | Max data rate, bps                          | 32 000                         | 32 000 |
|              | AMD PDU header, bit                         | 16                             | 16     |
| MAC          | MAC header, bit                             | 24                             | 24     |
|              | MAC multiplexing                            | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                   | FACH                           |        |
|              | TB sizes, bit                               | 360                            |        |
|              | TFS                                         | TF0, bits                      | 0x360  |
|              |                                             | TF1, bits                      | 1x360  |
|              | TTI, ms                                     | 10                             |        |
|              | Coding type                                 | TC                             |        |
|              | CRC, bit                                    | 16                             |        |
|              | Max number of bits/TTI after channel coding | 1 140                          |        |
|              | RM attribute                                | 110 to 150                     |        |

#### 6.10.2.4.3.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.2.4.3.2.1.2

#### 6.10.2.4.3.2a.1.3 TFCS

|           |                                                                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 4 or 5 (alt. 4, 5 or 6)                                                                                                                                                                                                  |
| TFCS      | (SRBs for CCCH/DCCH/BCCH, 32kbps RAB + 32kbps RAB) =<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), [TF1, TF1] (note)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), [TF3, TF0] (note), (TF0, TF1), [TF1, TF1] (note)) |
| NOTE:     | These TFCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for TFC of (TF2, TF0).                                                                                                   |

#### 6.10.2.4.3.2a.2 Physical channel parameters

|        |                           |          |
|--------|---------------------------|----------|
| SCCPCH | DTX position              | Flexible |
|        | Spreading factor          | 64       |
|        | Number of TFCI bits/slot  | 8        |
|        | Number of Pilot bits/slot | 0        |
|        | Number of data bits/slot  | 72       |
|        | Number of data bits/frame | 1 080    |

#### 6.10.2.4.3.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

##### 6.10.2.4.3.3.1 Transport channel parameters

##### 6.10.2.4.3.3.1.1 Transport channel parameters of SRB for Interactive/Background 32 kbps RAB

See clause 6.10.2.4.3.2.1.

##### 6.10.2.4.3.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.2.4.3.1.1.

##### 6.10.2.4.3.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.2.4.3.2.1.2

##### 6.10.2.4.3.3.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6, 7 or 8 for 240 bits PCH TrBlk size and TF3 not used<br>(alt 6, 7, 8 or 9 for 80 bits PCH TrBlk size and TF3 not used)<br>(alt 6, 7, 8 or 9 for 240 bits PCH TrBlk size and TF3 used)<br>(alt. 6, 7, 8, 9, 10, or 11 for 80 bits PCH TrBlk size and TF3 used)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| TFCS      | (SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH, 32 kbps RAB) =<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1, TF2, TF0]<br>(see note), (TF0, TF0, TF1), [TF0, TF1, TF1] (see note) for 240 bits PCH TrBlk size and TF3 not used<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1, TF2, TF0]<br>(see note), (TF0, TF0, TF1), [TF1, TF0, TF1] (see note), [TF0, TF1, TF1] (see note) for 80 bits PCH TrBlk size and TF3 not used)<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1, TF2, TF0]<br>(see note), [TF0, TF3, TF0] (see note), (TF0, TF0, TF1), [TF0, TF1, TF1] (see note) for 240 bits PCH TrBlk size and TF3 used)<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), [TF1, TF2, TF0]<br>(see note), [TF0, TF3, TF0] (see note), [TF1, TF3, TF0] (see note), (TF0, TF0, TF1), [TF1, TF0, TF1]<br>(see note), [TF0, TF1, TF1] (see note) for 80 bits PCH TrBlk size and TF3 used) |
| NOTE:     | These TFCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for TFC of (TF0, TF2, TF0).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

#### 6.10.2.4.3.3.2 Physical channel parameters

|        |                  |          |
|--------|------------------|----------|
| SCCPCH | DTX position     | Flexible |
|        | Spreading factor | 64       |

|  |                           |       |
|--|---------------------------|-------|
|  | Number of TFCI bits/slot  | 8     |
|  | Number of Pilot bits/slot | 0     |
|  | Number of data bits/slot  | 72    |
|  | Number of data bits/frame | 1 080 |

#### 6.10.2.4.3.4 RB for CTCH + SRB for CCCH + SRB for BCCH

##### 6.10.2.4.3.4.1 Transport channel parameters

##### 6.10.2.4.3.4.1.1 Transport channel parameters of RB for CTCH

|              |                                             |           |            |
|--------------|---------------------------------------------|-----------|------------|
| Higher layer | RAB/signalling RB                           |           | N/A        |
|              | User of Radio Bearer                        |           | BMC        |
| RLC          | Logical channel type                        |           | CTCH       |
|              | RLC mode                                    |           | UM         |
|              | Payload sizes, bit                          |           | 152        |
|              | Max data rate, bps                          |           | 15 200     |
|              | UMD PDU header, bit                         |           | 8          |
| MAC          | MAC header, bit                             |           | 8          |
|              | MAC multiplexing                            |           | N/A        |
| Layer 1      | TrCH type                                   |           | FACH       |
|              | TB sizes, bit                               |           | 168        |
|              | TFS                                         | TF0, bits | 0x168      |
|              |                                             | TF1, bits | 1x168      |
|              | TTI, ms                                     |           | 10         |
|              | Coding type                                 |           | CC 1/3     |
|              | CRC, bit                                    |           | 16         |
|              | Max number of bits/TTI before rate matching |           | 576        |
|              | RM attribute                                |           | 200 to 240 |

##### 6.10.2.4.3.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

|              |                                             |           |                                |        |
|--------------|---------------------------------------------|-----------|--------------------------------|--------|
| Higher layer | RAB/signalling RB                           |           | SRB#0                          | SRB#5  |
|              | User of Radio Bearer                        |           | RRC                            | RRC    |
| RLC          | Logical channel type                        |           | CCCH                           | BCCH   |
|              | RLC mode                                    |           | UM                             | TM     |
|              | Payload sizes, bit                          |           | 152                            | 166    |
|              | Max data rate, bps                          |           | 15 200                         | 16 600 |
|              | AMD/UMD/TrD PDU header, bit                 |           | 8                              | 0      |
| MAC          | MAC header, bit                             |           | 8                              | 2      |
|              | MAC multiplexing                            |           | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                   |           | FACH                           |        |
|              | TB sizes, bit                               |           | 168                            |        |
|              | TFS                                         | TF0, bits | 0x168                          |        |
|              |                                             | TF1, bits | 1x168                          |        |
|              | TTI, ms                                     |           | 10                             |        |
|              | Coding type                                 |           | CC 1/3                         |        |
|              | CRC, bit                                    |           | 16                             |        |
|              | Max number of bits/TTI before rate matching |           | 576                            |        |
|              | RM attribute                                |           | 200 to 240                     |        |

##### 6.10.2.4.3.4.1.3 TFCS

|           |                                                                         |
|-----------|-------------------------------------------------------------------------|
| TFCS size | 3                                                                       |
| TFCS      | (SRBs for CCCH/ BCCH, RB for CTCH) = (TF0, TF0), (TF1, TF0), (TF0, TF1) |

## 6.10.2.4.3.4.2 Physical channel parameters

|        |                           |          |
|--------|---------------------------|----------|
| SCCPCH | DTX position              | Flexible |
|        | Spreading factor          | 128      |
|        | Number of TFCI bits/slot  | 2        |
|        | Number of Pilot bits/slot | 0        |
|        | Number of data bits/slot  | 38       |
|        | Number of data bits/frame | 570      |

## 6.10.2.4.3.5 64.8kbps RB for MTCH with 80 ms TTI

## 6.10.2.4.3.5.1 Transport channel parameters

## 6.10.2.4.3.5.1.1 Transport channel parameters for 64 kbps PS RAB

|              |                                             |           |       |
|--------------|---------------------------------------------|-----------|-------|
| Higher layer | RAB/signalling RB                           |           | RAB   |
|              | User of Radio Bearer                        |           | MBMS  |
| RLC          | Logical channel type                        |           | MTCH  |
|              | RLC mode                                    |           | UM    |
|              | Payload sizes, bit                          |           | 648   |
|              | Max data rate, bps                          |           | 64800 |
|              | UMD PDU header, bit                         |           | 8     |
|              |                                             |           |       |
| MAC          | MAC header, bit                             |           | 8     |
|              | MAC multiplexing                            |           | N/A   |
| Layer 1      | TrCH type                                   |           | FACH  |
|              | TB sizes, bit                               |           | 664   |
|              | TFS                                         | TF0, bits | 0x664 |
|              |                                             | TF1, bits | 1x664 |
|              |                                             | TF2, bits | 2x664 |
|              |                                             | TF3, bits | 3x664 |
|              |                                             | TF4, bits | 4x664 |
|              |                                             | TF5, bits | 5x664 |
|              |                                             | TF6, bits | 6x664 |
|              |                                             | TF7, bits | 7x664 |
|              |                                             | TF8, bits | 8x664 |
|              | TTI, ms                                     |           | 80    |
|              | Coding type                                 |           | TC    |
|              | CRC, bit                                    |           | 16    |
|              | Max number of bits/TTI before rate matching |           | 16344 |
|              | RM attribute                                |           | 160   |

## 6.10.2.4.3.5.1.2 TFCS

|           |                                                           |
|-----------|-----------------------------------------------------------|
| TFCS size | 9                                                         |
| TFCS      | 64 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8 |

## 6.10.2.4.3.5.2 Physical channel parameters

|        |                           |          |
|--------|---------------------------|----------|
| SCCPCH | DTX position              | Flexible |
|        | Spreading factor          | 32       |
|        | Number of TFCI bits/slot  | 8        |
|        | Number of Pilot bits/slot | 0        |
|        | Number of data bits/slot  | 152      |
|        | Number of data bits/frame | 2280     |

6.10.2.4.3.6 129.6 kbps RB for MTCH with 80 ms TTI

6.10.2.4.3.6.1 Transport channel parameters

6.10.2.4.3.6.1.1 Transport channel parameters for 128 kbps PS RAB

|              |                                             |            |        |
|--------------|---------------------------------------------|------------|--------|
| Higher layer | RAB/signalling RB                           |            | RAB    |
|              | User of Radio Bearer                        |            | MBMS   |
| RLC          | Logical channel type                        |            | MTCH   |
|              | RLC mode                                    |            | UM     |
|              | Payload sizes, bit                          |            | 648    |
|              | Max data rate, bps                          |            | 129600 |
|              | UMD PDU header, bit                         |            | 8      |
| MAC          | MAC header, bit                             |            | 8      |
|              | MAC multiplexing                            |            | N/A    |
| Layer 1      | TrCH type                                   |            | FACH   |
|              | TB sizes, bit                               |            | 664    |
|              | TFS                                         | TF0, bits  | 0x664  |
|              |                                             | TF1, bits  | 1x664  |
|              |                                             | TF2, bits  | 2x664  |
|              |                                             | TF3, bits  | 3x664  |
|              |                                             | TF4, bits  | 4x664  |
|              |                                             | TF5, bits  | 5x664  |
|              |                                             | TF6, bits  | 6x664  |
|              |                                             | TF7, bits  | 7x664  |
|              |                                             | TF8, bits  | 8x664  |
|              |                                             | TF9, bits  | 9x664  |
|              |                                             | TF10, bits | 10x664 |
|              |                                             | TF11, bits | 11x664 |
|              |                                             | TF12, bits | 12x664 |
|              |                                             | TF13, bits | 13x664 |
|              |                                             | TF14, bits | 14x664 |
|              |                                             | TF15, bits | 15x664 |
|              |                                             | TF16, bits | 16x664 |
|              | TTI, ms                                     |            | 80     |
|              | Coding type                                 |            | TC     |
|              | CRC, bit                                    |            | 16     |
|              | Max number of bits/TTI before rate matching |            | 32679  |
|              | RM attribute                                |            | 160    |

6.10.2.4.3.6.1.2 TFCS

|           |                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------|
| TFCS size | 17                                                                                                       |
| TFCS      | 128 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

6.10.2.4.3.6.2 Physical channel parameters

|        |                           |          |
|--------|---------------------------|----------|
| SCCPCH | DTX position              | Flexible |
|        | Spreading factor          | 16       |
|        | Number of TFCI bits/slot  | 8        |
|        | Number of Pilot bits/slot | 0        |
|        | Number of data bits/slot  | 312      |
|        | Number of data bits/frame | 4680     |

6.10.2.4.3.7 259.2 kbps RB for MTCH with 40 ms TTI

6.10.2.4.3.7.1 Transport channel parameters

6.10.2.4.3.7.1.1 Transport channel parameters for 256 kbps PS RAB

|              |                                             |            |        |
|--------------|---------------------------------------------|------------|--------|
| Higher layer | RAB/signalling RB                           |            | RAB    |
|              | User of Radio Bearer                        |            | MBMS   |
| RLC          | Logical channel type                        |            | MTCH   |
|              | RLC mode                                    |            | UM     |
|              | Payload sizes, bit                          |            | 648    |
|              | Max data rate, bps                          |            | 259200 |
|              | UMD PDU header, bit                         |            | 8      |
| MAC          | MAC header, bit                             |            | 8      |
|              | MAC multiplexing                            |            | N/A    |
| Layer 1      | TrCH type                                   |            | FACH   |
|              | TB sizes, bit                               |            | 664    |
|              | TFS                                         | TF0, bits  | 0x664  |
|              |                                             | TF1, bits  | 1x664  |
|              |                                             | TF2, bits  | 2x664  |
|              |                                             | TF3, bits  | 3x664  |
|              |                                             | TF4, bits  | 4x664  |
|              |                                             | TF5, bits  | 5x664  |
|              |                                             | TF6, bits  | 6x664  |
|              |                                             | TF7, bits  | 7x664  |
|              |                                             | TF8, bits  | 8x664  |
|              |                                             | TF9, bits  | 9x664  |
|              |                                             | TF10, bits | 10x664 |
|              |                                             | TF11, bits | 11x664 |
|              |                                             | TF12, bits | 12x664 |
|              |                                             | TF13, bits | 13x664 |
|              |                                             | TF14, bits | 14x664 |
|              |                                             | TF15, bits | 15x664 |
|              |                                             | TF16, bits | 16x664 |
|              | TTI, ms                                     |            | 40     |
|              | Coding type                                 |            | TC     |
|              | CRC, bit                                    |            | 16     |
|              | Max number of bits/TTI before rate matching |            | 32679  |
|              | RM attribute                                |            | 160    |

6.10.2.4.3.7.1.2 TFCS

|           |                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------|
| TFCS size | 17                                                                                                       |
| TFCS      | 256 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

6.10.2.4.3.7.2 Physical channel parameters

|        |                           |          |
|--------|---------------------------|----------|
| SCCPCH | DTX position              | Flexible |
|        | Spreading factor          | 8        |
|        | Number of TFCI bits/slot  | 8        |
|        | Number of Pilot bits/slot | 0        |
|        | Number of data bits/slot  | 632      |
|        | Number of data bits/frame | 9480     |

## 6.10.2.4.3.8 7.6 kbps signalling RB for MCCH

## 6.10.2.4.3.8.1 Transport channel parameters

## 6.10.2.4.3.8.1.1 Transport channel parameters for 7.6 kbps signalling RB for MCCH

|              |                                             |           |        |
|--------------|---------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                           |           | SRB    |
|              | User of Radio Bearer                        |           | MBMS   |
| RLC          | Logical channel type                        |           | MCCH   |
|              | RLC mode                                    |           | UM     |
|              | Payload sizes, bit                          |           | 152    |
|              | Max data rate, bps                          |           | 7600   |
|              | UMD PDU header, bit                         |           | 8      |
| MAC          | MAC header, bit                             |           | -      |
|              | MAC multiplexing                            |           | N/A    |
| Layer 1      | TrCH type                                   |           | FACH   |
|              | TB sizes, bit                               |           | 160    |
|              | TFS                                         | TF0, bits | 0x160  |
|              |                                             | TF1, bits | 1x160  |
|              | TTI, ms                                     |           | 20     |
|              | Coding type                                 |           | CC 1/3 |
|              | CRC, bit                                    |           | 16     |
|              | Max number of bits/TTI before rate matching |           | 552    |
|              | RM attribute                                |           | 160    |

## 6.10.2.4.3.8.1.2 TFCS

|           |                    |
|-----------|--------------------|
| TFCS size | 2                  |
| TFCS      | MBMS SRB =TF0, TF1 |

## 6.10.2.4.3.8.2 Physical channel parameters

|        |                           |          |
|--------|---------------------------|----------|
| SCCPCH | DTX position              | Flexible |
|        | Spreading factor          | 256      |
|        | Number of TFCI bits/slot  | 2        |
|        | Number of Pilot bits/slot | 0        |
|        | Number of data bits/slot  | 18       |
|        | Number of data bits/frame | 270      |

## 6.10.2.4.3.9 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH + SRB for MCCH

## 6.10.2.4.3.9.1 Transport channel parameters

## 6.10.2.4.3.9.1.1 Transport channel parameters of SRB for Interactive/Background 32 kbps RAB

See clause 6.10.2.4.3.2.1.1

## 6.10.2.4.3.9.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.2.4.3.1.1.1

## 6.10.2.4.3.9.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.2.4.3.2.1.2

## 6.10.2.4.3.9.1.4 Transport channel parameters of SRBs for MCCH

|              |                                             |           |            |
|--------------|---------------------------------------------|-----------|------------|
| Higher layer | RAB/signalling RB                           |           | SRB        |
|              | User of Radio Bearer                        |           | MBMS       |
| RLC          | Logical channel type                        |           | MCCH       |
|              | RLC mode                                    |           | UM         |
|              | Payload sizes, bit                          |           | 152        |
|              | Max data rate, bps                          |           | 7600       |
|              | UMD PDU header, bit                         |           | 8          |
| MAC          | MAC header, bit                             |           | -          |
|              | MAC multiplexing                            |           | N/A        |
| Layer 1      | TrCH type                                   |           | FACH       |
|              | TB sizes, bit                               |           | 160        |
|              | TFS                                         | TF0, bits | 0x160      |
|              |                                             | TF1, bits | 1x160      |
|              | TTI, ms                                     |           | 20         |
|              | Coding type                                 |           | CC 1/3     |
|              | CRC, bit                                    |           | 16         |
|              | Max number of bits/TTI before rate matching |           | 552        |
|              | RM attribute                                |           | 215 to 235 |

## 6.10.2.4.3.9.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12 or 13 for 240 bits PCH TrBlk size and TF3 not used                                                                                                                                                                                                                                                                                                                                                                             |
| TFCS      | (SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH, 32 kbps RAB, SRB for MCCH) =<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF0, TF1, TF0, TF0), (TF1, TF1, TF0, TF0), (TF0, TF2, TF0, TF0), (TF0, TF0, TF1, TF0), (TF0, TF1, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF0, TF1, TF0, TF1), [TF1, TF1, TF0, TF1] (see note), (TF0, TF2, TF0, TF1), (TF0, TF0, TF1, TF1)<br>for 240 bits PCH TrBlk size and TF3 not used |
| NOTE:     | Some TFC's are available only if SCCPCH can be allocated bigger Tx power than required Tx power for TFC (TF0, TF2, TF0, TF0).                                                                                                                                                                                                                                                                                                     |

## 6.10.2.4.3.9.2 Physical channel parameters

|        |                           |          |
|--------|---------------------------|----------|
| SCCPCH | DTX position              | Flexible |
|        | Spreading factor          | 64       |
|        | Number of TFCI bits/slot  | 8        |
|        | Number of Pilot bits/slot | 0        |
|        | Number of data bits/slot  | 72       |
|        | Number of data bits/frame | 1080     |

## 6.10.2.4.4 Combinations on PRACH

## 6.10.2.4.4.1 Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH

## 6.10.2.4.4.1.1 Transport channel parameters

## 6.10.2.4.4.1.1.1 Transport channel parameter for Interactive/Background 32 kbps PS RAB, SRB for CCCH, SRB for DCCH

|              |                      |                                   |                                |       |       |                     |                    |
|--------------|----------------------|-----------------------------------|--------------------------------|-------|-------|---------------------|--------------------|
| Higher layer | RAB/signalling RB    | RAB                               | SRB#0                          | SRB#1 | SRB#2 | SRB#3               | SRB#4              |
|              | User of Radio Bearer | Interactive/<br>Background<br>RAB | RRC                            | RRC   | RRC   | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC          | Logical channel type | DTCH                              | CCCH                           | DCCH  | DCCH  | DCCH                | DCCH               |
|              | RLC mode             | AM                                | TM                             | UM    | AM    | AM                  | AM                 |
|              | Payload sizes, bit   | 320                               | 166/238<br>(Rel6, see<br>Note) | 136   | 128   | 128                 | 128                |



|              |                                                            |                                |                                   |  |                                                                        |  |                          |  |                       |  |                       |  |                       |  |
|--------------|------------------------------------------------------------|--------------------------------|-----------------------------------|--|------------------------------------------------------------------------|--|--------------------------|--|-----------------------|--|-----------------------|--|-----------------------|--|
| Higher layer | RAB/signalling RB                                          |                                | RAB                               |  | SRB#0                                                                  |  | SRB#1                    |  | SRB#2                 |  | SRB#3                 |  | SRB#4                 |  |
|              | User of Radio Bearer                                       |                                | Interactive/<br>Background<br>RAB |  | RRC                                                                    |  | RRC                      |  | RRC                   |  | NAS_DT<br>High prio   |  | NAS_DT<br>Low prio    |  |
|              | Max data rate, bps                                         |                                | 16 000 (alt.<br>32 000)           |  | 8 300<br>/11900<br>Rel 6<br>(alt.16<br>600/23800<br>Rel6, see<br>Note) |  | 6 800<br>(alt.13<br>600) |  | 6 400<br>(alt.12 800) |  | 6 400<br>(alt.12 800) |  | 6 400<br>(alt.12 800) |  |
|              | AMD/UMD/TrD PDU<br>header, bit                             |                                | 16                                |  | 0                                                                      |  | 8                        |  | 16                    |  | 16                    |  | 16                    |  |
| MAC          | MAC header, bit                                            |                                | 24                                |  | 2                                                                      |  | 24                       |  | 24                    |  | 24                    |  | 24                    |  |
|              | MAC multiplexing                                           |                                | 6 logical channel multiplexing    |  |                                                                        |  |                          |  |                       |  |                       |  |                       |  |
| Layer 1      | TrCH type                                                  |                                | RACH                              |  |                                                                        |  |                          |  |                       |  |                       |  |                       |  |
|              | TB sizes, bit                                              |                                | 360                               |  | 168/240<br>(Rel6, see<br>Note)                                         |  | 168                      |  | 168                   |  | 168                   |  | 168                   |  |
|              | TFS                                                        | TF0, bits                      | 1x168                             |  |                                                                        |  |                          |  |                       |  |                       |  |                       |  |
|              |                                                            | TF1, bits                      | 1x360                             |  |                                                                        |  |                          |  |                       |  |                       |  |                       |  |
|              |                                                            | TF2, bits (Rel 6,<br>see Note) | 1x240                             |  |                                                                        |  |                          |  |                       |  |                       |  |                       |  |
|              | TTI, ms                                                    |                                | 20 (alt. 10)                      |  |                                                                        |  |                          |  |                       |  |                       |  |                       |  |
|              | Coding type                                                |                                | CC 1/2                            |  |                                                                        |  |                          |  |                       |  |                       |  |                       |  |
|              | CRC, bit                                                   |                                | 16                                |  |                                                                        |  |                          |  |                       |  |                       |  |                       |  |
|              | Max number of bits/TTI<br>after channel coding             |                                | 768                               |  | 384/528<br>(Rel 6,<br>see Note)                                        |  | 384                      |  | 384                   |  | 384                   |  | 384                   |  |
|              | Max number of bits/<br>Radio frame before rate<br>matching |                                | 384<br>(alt. 768)                 |  | 192/264<br>Rel 6<br>(alt. 384/5<br>28 Rel 6,<br>see Note)              |  | 192<br>(alt. 384)        |  | 192<br>(alt. 384)     |  | 192<br>(alt. 384)     |  | 192<br>(alt. 384)     |  |

## 6.10.2.4.4.1.1.2 TFCS

|           |                                                                     |
|-----------|---------------------------------------------------------------------|
| TFCS size | 2, 3 (in Rel 6 , see Note)                                          |
| TFCS      | 32 kbps + SRBs for CCCH/ DCCH = TF0, TF1, TF2 (in Rel 6 , see Note) |

## 6.10.2.4.4.1.2 Physical channel parameters

|       |                                     |                  |
|-------|-------------------------------------|------------------|
| PRACH | Minimum Spreading factor            | 64 (alt. 32)     |
|       | Max number of data bits/radio frame | 600 (alt. 1 200) |
|       | Puncturing Limit                    | 1                |

NOTE: In Release 6 UEs shall use the TF/TFC as indicated in the IE "Additional Dynamic Transport Format Information for CCCH" and the IE "Additional RACH TFCS for CCCH" for CCCH if available. In this configuration the indicated TF / TFC will be transmitted in these IEs.

## 6.10.2.4.4.2 Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRB for DCCH

## 6.10.2.4.4.2.1 Transport channel parameters

## 6.10.2.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB, Interactive/Background 32 kbps PS RAB, SRB for CCCH, SRB for DCCH

|              |                      |                                     |                                     |       |       |       |                     |                    |
|--------------|----------------------|-------------------------------------|-------------------------------------|-------|-------|-------|---------------------|--------------------|
| Higher layer | RAB/signalling RB    | RAB                                 | RAB                                 | SRB#0 | SRB#1 | SRB#2 | SRB#3               | SRB#4              |
|              | User of Radio Bearer | Interactive/<br>Background<br>d RAB | Interactive/<br>Background<br>d RAB | RRC   | RRC   | RRC   | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC          | Logical channel type | DTCH                                | DTCH                                | CCCH  | DCCH  | DCCH  | DCCH                | DCCH               |

|              |                                                      |           |                                |                             |                                                       |                     |                     |                     |                    |
|--------------|------------------------------------------------------|-----------|--------------------------------|-----------------------------|-------------------------------------------------------|---------------------|---------------------|---------------------|--------------------|
| Higher layer | RAB/signalling RB                                    |           | RAB                            | RAB                         | SRB#0                                                 | SRB#1               | SRB#2               | SRB#3               | SRB#4              |
|              | User of Radio Bearer                                 |           | Interactive/ Background RAB    | Interactive/ Background RAB | RRC                                                   | RRC                 | RRC                 | NAS_DT High prio    | NAS_DT Low prio    |
|              | RLC mode                                             |           | AM                             | AM                          | TM                                                    | UM                  | AM                  | AM                  | AM                 |
|              | Payload sizes, bit                                   |           | 320                            | 320                         | 166/238 (Rel6, see Note)                              | 136                 | 128                 | 128                 | 128                |
|              | Max data rate, bps                                   |           | 16 000 (alt. 32 000)           | 16 000 (alt. 32 000)        | 83 00 /11900 Rel 6 (alt. 16 600/23800 Rel6, see Note) | 6 800 (alt. 13 600) | 6 400 (alt. 12 800) | 6 400 (alt. 12 800) | 6 400 (alt.12 800) |
|              | AMD/UMD/TrD PDU header, bit                          |           | 16                             | 16                          | 0                                                     | 8                   | 16                  | 16                  | 16                 |
| MAC          | MAC header, bit                                      |           | 24                             | 24                          | 2                                                     | 24                  | 24                  | 24                  | 24                 |
|              | MAC multiplexing                                     |           | 7 logical channel multiplexing |                             |                                                       |                     |                     |                     |                    |
| Layer 1      | TrCH type                                            |           | RACH                           |                             |                                                       |                     |                     |                     |                    |
|              | TB sizes, bit                                        |           | 360                            | 360                         | 168/240 (Rel6, see Note)                              | 168                 | 168                 | 168                 | 168                |
|              | TFS                                                  | TF0, bits | 1x168                          |                             |                                                       |                     |                     |                     |                    |
|              |                                                      | TF1, bits | 1x360                          |                             |                                                       |                     |                     |                     |                    |
|              |                                                      | TF2, bits | 1x240                          |                             |                                                       |                     |                     |                     |                    |
|              | TTI, ms                                              |           | 20 (alt. 10)                   |                             |                                                       |                     |                     |                     |                    |
|              | Coding type                                          |           | CC 1/2                         |                             |                                                       |                     |                     |                     |                    |
|              | CRC, bit                                             |           | 16                             |                             |                                                       |                     |                     |                     |                    |
|              | Max number of bits/TTI after channel coding          |           | 768                            | 768                         | 384/528 (Rel 6, see Note)                             | 384                 | 384                 | 384                 | 384                |
|              | Max number of bits/ Radio frame before rate matching |           | 384 (alt. 768)                 | 384 (alt 768)               | 192/264 (alt. 384/528 Rel 6, see Note)                | 192 (alt. 384)      | 192 (alt. 384)      | 192 (alt. 384)      | 192 (alt. 384)     |

## 6.10.2.4.4.2.1.2 TFCS

|           |                                                                                     |
|-----------|-------------------------------------------------------------------------------------|
| TFCS size | 2, 3 (in Rel 6 , see Note)                                                          |
| TFCS      | 32 kbps RAB+ 32 kbps RAB + SRBs for CCCH/ DCCH = TF0, TF1, TF2 (in Rel 6, see Note) |

## 6.10.2.4.4.2.2 Physical channel parameters

|       |                                     |                  |
|-------|-------------------------------------|------------------|
| PRACH | Minimum Spreading factor            | 64 (alt. 32)     |
|       | Max number of data bits/radio frame | 600 (alt. 1 200) |
|       | Puncturing Limit                    | 1                |

NOTE: In Release 6 UEs shall use the TF/TFC as indicated in the IE "Additional Dynamic Transport Format Information for CCCH" and the IE "Additional RACH TFCS for CCCH" for CCCH if available. In this configuration the indicated TF / TFC will be transmitted in these IEs.

6.10.2.4.4.3 (void)

6.10.2.4.4.3.1 (void)

6.10.2.4.4.3.1.1 (void)

6.10.2.4.4.3.1.1.1 (void)

6.10.2.4.4.3.1.1.2 (void)

6.10.2.4.4.3.1.2 (void)

6.10.2.4.4.3.2 (void)

6.10.2.4.4.3.2.1 (void)

6.10.2.4.4.3.2.1.1 (void)

6.10.2.4.4.3.2.1.1.1 (void)

6.10.2.4.4.3.2.1.1.2 (void)

6.10.2.4.4.3.2.2 (void)

6.10.2.4.4.3.2.2.1 Physical (void)

**6.10.2.4.5 Combinations on DPCH and HS-PDSCH**

6.10.2.4.5.1 Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.1.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.5.1.2 Downlink

6.10.2.4.5.1.2.1 Transport channel parameters

6.10.2.4.5.1.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.5.1.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

|              |                                       | <b>Alt 1<br/>Fixed RLC +<br/>MAC-hs<br/>(Rel-5 and later<br/>releases)<br/>NOTE 2</b> | <b>Alt 2<br/>Fixed RLC +<br/>MAC-ehs<br/>(Rel-7 and<br/>later releases)<br/>NOTE 2</b> | <b>Alt 3<br/>Flexible RLC +<br/>MAC-ehs<br/>(Rel-7 and later<br/>releases)<br/>NOTE 2</b> |
|--------------|---------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Higher layer | RAB/Signalling RB                     | RAB                                                                                   |                                                                                        |                                                                                           |
| RLC          | Logical channel type                  | DTCH                                                                                  |                                                                                        |                                                                                           |
|              | RLC mode                              | AM                                                                                    |                                                                                        |                                                                                           |
|              | Payload sizes, bit                    | 320 (alt. 640)                                                                        | 320 (alt. 640)                                                                         | Flexible up to 12000 (NOTE 3)                                                             |
|              | Max data rate, bps                    | depends on UE category<br>NOTE 1                                                      |                                                                                        |                                                                                           |
|              | AMD PDU header, bit                   | 16                                                                                    | 16                                                                                     | 16                                                                                        |
| MAC          | MAC-d header, bit                     | 0                                                                                     | 0                                                                                      | 0                                                                                         |
|              | MAC multiplexing                      | N/A                                                                                   | N/A                                                                                    | N/A                                                                                       |
|              | MAC-d PDU size, bit                   | 336 (alt. 656)                                                                        | 336 (alt. 656)                                                                         | Flexible                                                                                  |
|              | MAC-hs Type                           | MAC-hs                                                                                | MAC-ehs                                                                                | MAC-ehs                                                                                   |
|              | MAC-hs/MAC-ehs header fixed part, bit | 21                                                                                    | 24                                                                                     | 24                                                                                        |
| Layer 1      | TrCH type                             | HS-DSCH                                                                               | HS-DSCH                                                                                | HS-DSCH                                                                                   |
|              | TTI                                   | 2 ms                                                                                  | 2 ms                                                                                   | 2 ms                                                                                      |
|              | Coding type                           | TC                                                                                    | TC                                                                                     | TC                                                                                        |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                |                          |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------|--------------------------|--------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRC, bit                        | 24             | 24                       | 24                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Applicable modulation schemes   | QPSK,<br>16QAM | QPSK,<br>16QAM,<br>64QAM | QPSK,<br>16QAM,<br>64QAM |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Applicable with MIMO            | No             | Yes                      | Yes                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Applicable with Dual-Cell HSDPA | No             | Yes                      | Yes                      |
| <p>NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see 3GPP TS 25.321 [38]).</p> <p>NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case.</p> <p>NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits.</p> |                                 |                |                          |                          |

#### 6.10.2.4.5.1.2.1.2 Transport channel parameters for DCH

##### 6.10.2.4.5.1.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

##### 6.10.2.4.5.1.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

#### 6.10.2.4.5.1.2.2 Physical channel parameters

##### 6.10.2.4.5.1.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

##### 6.10.2.4.5.1.2.2.2 Physical channel parameters on HS-PDSCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE HS-DSCH Physical Layer category 1 (Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.2 Mbps, (alt. 400 kbps)         |

UE HS-DSCH Physical Layer category 2 (Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.2 Mbps, (alt. 600 kbps)]        |

UE HS-DSCH Physical Layer category 3 (Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 3, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.8 Mbps, (alt. 900 kbps)         |

UE HS-DSCH Physical Layer category 4 (Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 3, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.8 Mbps, (alt. 1.2 Mbps)         |

UE HS-DSCH Physical Layer category 5 (Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 3.65 Mbps, (alt. 3.6 Mbps)        |

UE HS-DSCH Physical Layer category 6 (Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 3.65 Mbps, (alt. 3.65 Mbps)       |

UE HS-DSCH Physical Layer category 7 (Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 7.2 Mbps, (alt. 7.2 Mbps)         |

UE HS-DSCH Physical Layer category 8 (Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 7.2 Mbps, (alt. 7.2 Mbps)         |

UE HS-DSCH Physical Layer category 9 (Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 10.1 Mbps, (alt. 10.1 Mbps)       |

UE HS-DSCH Physical Layer category 10 (Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 14.0 Mbps, (alt. 10.8 Mbps)       |

UE HS-DSCH Physical Layer category 11 (Rel-5 and later releases; QPSK):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 3, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 900 kbps, (alt. 450 kbps)         |

UE HS-DSCH Physical Layer category 12 (Rel-5 and later releases; QPSK):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.8 Mbps, (alt. 1.8 Mbps)         |

UE HS-DSCH Physical Layer category 13 (Rel-7 and later releases; QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 17.6 Mbps, (alt. 16.2 Mbps)       |

UE HS-DSCH Physical Layer category 14 (Rel-7 and later releases; QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 21.1 Mbps, (alt. 16.2 Mbps)       |

UE HS-DSCH Physical Layer category 15 (Rel-7 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 11.7 Mbps, (alt. 11.7Mbps)        |

UE HS-DSCH Physical Layer category 15 (Rel-7 and later releases; MIMO + QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16)                     |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 23.4 Mbps, (alt. 21.6 Mbps)       |

UE HS-DSCH Physical Layer category 16 (Rel-7 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 14.0 Mbps, (alt. 14.0 Mbps)       |

UE HS-DSCH Physical Layer category 16 (Rel-7 and later releases; MIMO + QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16)                     |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 28,0 Mbps, (alt. 21.6 Mbps)       |

UE HS-DSCH Physical Layer category 17 (Rel-7 and later releases; QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 17.6 Mbps, (alt. 16.2 Mbps)       |

UE HS-DSCH Physical Layer category 17 (Rel-7 and later releases; MIMO + QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16)                     |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 23,4 Mbps, (alt. 21.6 Mbps)       |

UE HS-DSCH Physical Layer category 18 (Rel-7 and later releases; QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 21.1 Mbps, (alt. 16.2 Mbps)       |

UE HS-DSCH Physical Layer category 18 (Rel-7 and later releases; MIMO + QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16)                     |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 28.0 Mbps, (alt. 21.6 Mbps)       |

UE HS-DSCH Physical Layer category 19 (Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16)                     |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 35.3 Mbps, (alt. 32.4 Mbps)       |

UE HS-DSCH Physical Layer category 20 (Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16)                     |
|          | Process memory size | Split equally among all processes |

|  |               |                             |
|--|---------------|-----------------------------|
|  | Max Data Rate | 42.2 Mbps, (alt. 32.4 Mbps) |
|--|---------------|-----------------------------|

UE HS-DSCH Physical Layer category 21 (Rel-8 and later releases; Dual-Cell + QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 23.4 Mbps, (alt. 21.6 Mbps)       |

UE HS-DSCH Physical Layer category 22 (Rel-8 and later releases; Dual-Cell + QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 28.0 Mbps, (alt. 21.6 Mbps)       |

UE HS-DSCH Physical Layer category 23 (Rel-8 and later releases; Dual-Cell + QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 35.3 Mbps, (alt. 32.4 Mbps)       |

UE HS-DSCH Physical Layer category 24 (Rel-8 and later releases; Dual-Cell + QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 42.2 Mbps, (alt. 32.4 Mbps)       |

UE HS-DSCH Physical Layer category 25 (Rel-9 and later releases; Dual-Cell + MIMO + QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16)                     |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 46.7 Mbps, (alt. 43.2 Mbps)       |

UE HS-DSCH Physical Layer category 26 (Rel-9 and later releases; Dual-Cell + MIMO + QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16)                     |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 55.9 Mbps, (alt. 43.2 Mbps)       |

UE HS-DSCH Physical Layer category 27 (Rel-9 and later releases; Dual-Cell + MIMO + QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16)                     |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 70.6 Mbps, (alt. 64.8 Mbps)       |

UE HS-DSCH Physical Layer category 28 (Rel-9 and later releases; Dual-Cell + MIMO + QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 12, (alt. 16)                     |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 84.4 Mbps, (alt. 64.8 Mbps)       |

6.10.2.4.5.1a Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.1a.1 Uplink

See clause 6.10.2.4.1.28.1.

6.10.2.4.5.1a.2 Downlink

6.10.2.4.5.1a.2.1 Transport channel parameters

6.10.2.4.5.1a.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.5.1a.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.1a.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.1a.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.1a.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.5.1a.2.2 Physical channel parameters

6.10.2.4.5.1a.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.1a.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.2 Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.2.1 Uplink

See clause 6.10.2.4.1.34.1.

6.10.2.4.5.2.2 Downlink

6.10.2.4.5.2.2.1 Transport channel parameters

6.10.2.4.5.2.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.5.2.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.2.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.2.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.2.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.5.2.2.2 Physical channel parameters

6.10.2.4.5.2.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.2.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.



6.10.2.4.5.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.3.1 Uplink

6.10.2.4.5.3.1.1 Transport channel parameters

6.10.2.4.5.3.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.5.3.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.2.4.1.34.1.1.1.

6.10.2.4.5.3.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.5.3.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 54 (alt. 36)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),<br>(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),<br>(TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),<br>(TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),<br>(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),<br>(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),<br>(TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),<br>(TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1),<br>(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),<br>(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1)) |

6.10.2.4.5.3.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 4     |
|             | Max number of DPDCH data bits/radio frame | 9 600 |
|             | Number of DPDCH                           | 1     |
|             | Puncturing Limit                          | 0.60  |

6.10.2.4.5.3.2 Downlink

6.10.2.4.5.3.2.1 Transport channel parameters

6.10.2.4.5.3.2.1.1 Transport channel parameters for HS-DSCH

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.3.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.3.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.5.3.2.1.2.2 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.3.2.1.2.3 TFCS

See clause 6.10.2.4.1.4.2.1.3.

6.10.2.4.5.3.2.2 Physical channel parameters

6.10.2.4.5.3.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.4.2.2.

6.10.2.4.5.3.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.3a Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.3a.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.5.3a.2 Downlink

6.10.2.4.5.3a.2.1 Transport channel parameters

6.10.2.4.5.3a.2.1.1 Transport channel parameters for HS-DSCH

See clause 6.10.2.4.5.1.2.1.1.

6.10.2.4.5.3a.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.3a.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.5.3a.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.3a.2.1.2.3 TFCS

See clause 6.10.2.4.1.4.2.1.3.

6.10.2.4.5.3a.2.2 Physical channel parameters

6.10.2.4.5.3a.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.4.2.2.

6.10.2.4.5.3a.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.4 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.4.1 Uplink

6.10.2.4.5.4.1.1 Transport channel parameters

6.10.2.4.5.4.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.5.4.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.2.4.1.34.1.1.1.

6.10.2.4.5.4.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.5.4.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 36 (alt. 24)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| TFCS      | (64 kbps RAB, 384 kbps RAB , DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0),<br>(TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0),<br>(TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF5, TF0), (TF1, TF5, TF0),<br>(TF0, TF6, TF0), (TF1, TF6, TF0), (TF0, TF7, TF0), (TF1, TF7, TF0),<br>(TF0, TF8, TF0), (TF1, TF8, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1),<br>(TF0, TF3, TF1), (TF1, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1),<br>(TF0, TF5, TF1), (TF1, TF5, TF1), (TF0, TF6, TF1), (TF1, TF6, TF1),<br>(TF0, TF7, TF1), (TF1, TF7, TF1), (TF0, TF8, TF1), (TF1, TF8, TF1)<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0),<br>(TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0),<br>(TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF5, TF0), (TF1, TF5, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1),<br>(TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1),<br>(TF0, TF4, TF1), (TF1, TF4, TF1), (TF0, TF5, TF1), (TF1, TF5, TF1)) |

6.10.2.4.5.4.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 4     |
|             | Max number of DPDCH data bits/radio frame | 9 600 |
|             | Number of DPDCH                           | 1     |
|             | Puncturing Limit                          | 0.52  |

6.10.2.4.5.4.2 Downlink

6.10.2.4.5.4.2.1 Transport channel parameters

6.10.2.4.5.4.2.1.1 Transport channel parameters for HS-DSCH

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.4.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.4.2.1.2.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.5.4.2.1.2.2 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.4.2.1.2.3 TFCS

See clause 6.10.2.4.1.13.2.1.3.

6.10.2.4.5.4.2.2 Physical channel parameters

6.10.2.4.5.4.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.13.2.2.

6.10.2.4.5.4.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.4a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.4a.1 Uplink

See clause 6.10.2.4.1.51.1.

6.10.2.4.5.4a.2 Downlink

6.10.2.4.5.4a.2.1 Transport channel parameters

6.10.2.4.5.4a.2.1.1 Transport channel parameters for HS-DSCH

See clause 6.10.2.4.5.1.2.1.1.

6.10.2.4.5.4a.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.4a.2.1.2.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.5.4a.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.4a.2.1.2.3 TFCS

See clause 6.10.2.4.1.13.2.1.3.

6.10.2.4.5.4a.2.2 Physical channel parameters

6.10.2.4.5.4a.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.13.2.2.

6.10.2.4.5.4a.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.5 Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.5.1.1 Uplink

6.10.2.4.5.5.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB + UL:384 kbps / PS RAB

| Higher layer | RAB/Signalling RB    | RAB     | RAB     |
|--------------|----------------------|---------|---------|
| RLC          | Logical channel type | DTCH    | DTCH    |
|              | RLC mode             | AM      | AM      |
|              | Payload sizes, bit   | 320     | 320     |
|              | Max data rate, bps   | 384 000 | 384 000 |
|              | AMD PDU header, bit  | 16      | 16      |
| MAC          | MAC header, bit      | 4       | 4       |

|              |                                                             |           |                                |
|--------------|-------------------------------------------------------------|-----------|--------------------------------|
| Layer 1      | MAC multiplexing                                            |           | 2 logical channel multiplexing |
|              | TrCH type                                                   |           | DCH                            |
|              | TB sizes, bit                                               |           | 340                            |
|              | TFS                                                         | TF0, bits | 0x340                          |
|              |                                                             | TF1, bits | 1x340                          |
|              |                                                             | TF2, bits | 2x340                          |
|              |                                                             | TF3, bits | 4x340                          |
|              |                                                             | TF4, bits | 8x340                          |
|              |                                                             | TF5, bits | 12x340                         |
|              | TTI, ms                                                     |           | 10                             |
|              | Coding type                                                 |           | TC                             |
|              | CRC, bit                                                    |           | 16                             |
|              | Max number of bits/TTI after channel coding                 |           | 12 828                         |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 12 828                         |
| RM attribute |                                                             | 110-180   |                                |

#### 6.10.2.4.5.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.5.5.1.1.3 TFCS

|           |                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                        |
| TFCS      | (384 kbps RAB + 384 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |

#### 6.10.2.4.5.5.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 4     |
|             | Max number of DPDCH data bits/radio frame | 9 600 |
|             | Number of DPDCH                           | 1     |
|             | Puncturing Limit                          | 0.64  |

#### 6.10.2.4.5.5.2 Downlink

##### 6.10.2.4.5.5.2.1 Transport channel parameters

##### 6.10.2.4.5.5.2.1.1 Transport channel parameters for HS-DSCH

##### 6.10.2.4.5.5.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

##### 6.10.2.4.5.5.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

##### 6.10.2.4.5.5.2.1.2 Transport channel parameters for DCH

##### 6.10.2.4.5.5.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

##### 6.10.2.4.5.5.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

##### 6.10.2.4.5.5.2.2 Physical channel parameters

##### 6.10.2.4.5.5.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.5a Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.5a.1 Uplink

See clause 6.10.2.4.1.57.1.

6.10.2.4.5.5a.2 Downlink

6.10.2.4.5.5a.2.1 Transport channel parameters

6.10.2.4.5.5a.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.5.5a.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.5a.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.5.5a.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.5a.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.5a.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.5.5a.2.2 Physical channel parameters

6.10.2.4.5.5a.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.5a.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.6 Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.6.1 Uplink

6.10.2.4.5.6.1.1 Transport channel parameters

6.10.2.4.5.6.1.1.1 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

| Higher Layer | RAB/Signalling RB                                           |           | RAB     |
|--------------|-------------------------------------------------------------|-----------|---------|
| RLC          | Logical channel type                                        |           | DTCH    |
|              | RLC mode                                                    |           | AM      |
|              | Payload sizes, bit                                          |           | 640     |
|              | Max data rate, bps                                          |           | 128000  |
|              | AM PDU header, bit                                          |           | 16      |
| MAC          | MAC header, bit                                             |           | 0       |
|              | MAC multiplexing                                            |           | N/A     |
| Layer 1      | TrCH type                                                   |           | DCH     |
|              | TB sizes, bit                                               |           | 656     |
|              | TFS                                                         | TF0, bits | 0x656   |
|              |                                                             | TF1, bits | 1x656   |
|              |                                                             | TF2, bits | 2x656   |
|              |                                                             | TF3, bits | 4x656   |
|              | TTI, ms                                                     |           | 20      |
|              | Coding type                                                 |           | TC      |
|              | CRC, bit                                                    |           | 16      |
|              | Max number of bits/TTI after channel coding                 |           | 8076    |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 4038    |
|              | RM attribute                                                |           | 125-165 |

6.10.2.4.1.6.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.2.4.1.28.1.1.1.

6.10.2.4.1.6.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.6.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TFCS      | (128 kbps RAB, 128 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0),<br>(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0),<br>(TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0),<br>(TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0),<br>(TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1),<br>(TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1),<br>(TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1),<br>(TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1) |

6.10.2.4.1.6.1.2 Physical channel parameters

|             |                                           |      |
|-------------|-------------------------------------------|------|
| DPCH Uplink | Min spreading factor                      | 4    |
|             | Max number of DPDCH data bits/radio frame | 9600 |
|             | Puncturing Limit                          | 0.96 |

## 6.10.2.4.5.6.2 Downlink

## 6.10.2.4.5.6.2.1 Transport channel parameters

## 6.10.2.4.5.6.2.1.1 Transport channel parameters for HS-DSCH

## 6.10.2.4.5.6.2.1.1.1 MAC-d flow parameters for Streaming / unknown / DL: [max bit rate depending on UE category] kbps / PS RAB

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       | Alt 1<br>Fixed RLC +<br>MAC-hs<br>(Rel-5 and later<br>releases)<br>NOTE 2 | Alt 2<br>Fixed RLC +<br>MAC-ehs<br>(Rel-7 and<br>later releases)<br>NOTE 2 | Alt 3<br>Flexible RLC +<br>MAC-ehs<br>(Rel-7 and later<br>releases)<br>NOTE 2 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Higher layer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RAB/Signalling RB                     | RAB                                                                       |                                                                            |                                                                               |
| RLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Logical channel type                  | DTCH                                                                      |                                                                            |                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RLC mode                              | AM                                                                        |                                                                            |                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Payload sizes, bit                    | 640 (alt. 320)                                                            | 640 (alt. 320)                                                             | Flexible up to 12000 (NOTE 3)                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Max data rate, bps                    | depends on UE category<br>NOTE1                                           |                                                                            |                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AMD PDU header, bit                   | 16                                                                        | 16                                                                         | 16                                                                            |
| MAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MAC-d header, bit                     | 0                                                                         | 0                                                                          | 0                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MAC multiplexing                      | N/A                                                                       | N/A                                                                        | N/A                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MAC-d PDU size, bit                   | 656 (alt. 336)                                                            | 656 (alt. 336)                                                             | Flexible                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MAC-hs Type                           | MAC-hs                                                                    | MAC-ehs                                                                    | MAC-ehs                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MAC-hs/MAC-ehs header fixed part, bit | 21                                                                        | 24                                                                         | 24                                                                            |
| Layer 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TrCH type                             | HS-DSCH                                                                   | HS-DSCH                                                                    | HS-DSCH                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TTI                                   | 2 ms                                                                      | 2 ms                                                                       | 2 ms                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Coding type                           | TC                                                                        | TC                                                                         | TC                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRC, bit                              | 24                                                                        | 24                                                                         | 24                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Applicable modulation schemes         | QPSK,<br>16QAM                                                            | QPSK,<br>16QAM,<br>64QAM                                                   | QPSK,<br>16QAM,<br>64QAM                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Applicable with MIMO                  | No                                                                        | Yes                                                                        | Yes                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Applicable with Dual-Cell HSDPA       | No                                                                        | Yes                                                                        | Yes                                                                           |
| <p>NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see 3GPP TS 25.321 [38]).</p> <p>NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case.</p> <p>NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits.</p> |                                       |                                                                           |                                                                            |                                                                               |

## 6.10.2.4.5.6.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

## 6.10.2.4.5.6.2.1.2 Transport channel parameters for DCH

## 6.10.2.4.5.6.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.5.6.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.



## 6.10.2.4.5.6.2.2 Physical channel parameters

## 6.10.2.4.5.6.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

## 6.10.2.4.5.6.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.7 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.5.7.1 Uplink

## 6.10.2.4.5.7.1.1 Transport channel parameters

## 6.10.2.4.5.7.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

## 6.10.2.4.5.7.1.1.2 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

See clause 6.10.2.4.5.6.1.1.1.

## 6.10.2.4.1.7.1.1.3 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.2.4.1.28.1.1.1.

## 6.10.2.4.1.7.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.7.1.1.5 TFCS

| TFCS size | 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, 128 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF1,TF0), (TF1,TF0,TF0,TF2,TF1,TF0), (TF2,TF1,TF1,TF2,TF1,TF0),<br>(TF0,TF0,TF0,TF3,TF1,TF0), (TF1,TF0,TF0,TF3,TF1,TF0), (TF2,TF1,TF1,TF3,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF2,TF0), (TF1,TF0,TF0,TF2,TF2,TF0), (TF2,TF1,TF1,TF2,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF2,TF0), (TF1,TF0,TF0,TF3,TF2,TF0), (TF2,TF1,TF1,TF3,TF2,TF0),<br>(TF0,TF0,TF0,TF1,TF3,TF0), (TF1,TF0,TF0,TF1,TF3,TF0), (TF2,TF1,TF1,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF2,TF3,TF0), (TF1,TF0,TF0,TF2,TF3,TF0), (TF2,TF1,TF1,TF2,TF3,TF0),<br>(TF0,TF0,TF0,TF3,TF3,TF0), (TF1,TF0,TF0,TF3,TF3,TF0), (TF2,TF1,TF1,TF3,TF3,TF0),<br>(TF0,TF0,TF0,TF2,TF4,TF0), (TF1,TF0,TF0,TF2,TF4,TF0), (TF2,TF1,TF1,TF2,TF4,TF0),<br>(TF0,TF0,TF0,TF3,TF4,TF0), (TF1,TF0,TF0,TF3,TF4,TF0), (TF2,TF1,TF1,TF3,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF0,TF1),<br>(TF0,TF0,TF0,TF2,TF1,TF1), (TF1,TF0,TF0,TF2,TF1,TF1), (TF2,TF1,TF1,TF2,TF1,TF1),<br>(TF0,TF0,TF0,TF3,TF1,TF1), (TF1,TF0,TF0,TF3,TF1,TF1), (TF2,TF1,TF1,TF3,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF2,TF1), (TF1,TF0,TF0,TF2,TF2,TF1), (TF2,TF1,TF1,TF2,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF2,TF1), (TF1,TF0,TF0,TF3,TF2,TF1), (TF2,TF1,TF1,TF3,TF2,TF1),<br>(TF0,TF0,TF0,TF1,TF3,TF1), (TF1,TF0,TF0,TF1,TF3,TF1), (TF2,TF1,TF1,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF2,TF3,TF1), (TF1,TF0,TF0,TF2,TF3,TF1), (TF2,TF1,TF1,TF2,TF3,TF1),<br>(TF0,TF0,TF0,TF3,TF3,TF1), (TF1,TF0,TF0,TF3,TF3,TF1), (TF2,TF1,TF1,TF3,TF3,TF1),<br>(TF0,TF0,TF0,TF2,TF4,TF1), (TF1,TF0,TF0,TF2,TF4,TF1), (TF2,TF1,TF1,TF2,TF4,TF1),<br>(TF0,TF0,TF0,TF3,TF4,TF1), (TF1,TF0,TF0,TF3,TF4,TF1), (TF2,TF1,TF1,TF3,TF4,TF1) |

## 6.10.2.4.1.7.1.2 Physical channel parameters

|                |                                           |      |
|----------------|-------------------------------------------|------|
| DPCH<br>Uplink | Min spreading factor                      | 4    |
|                | Max number of DPDCH data bits/radio frame | 9600 |
|                | Puncturing Limit                          | 0.88 |

## 6.10.2.4.5.7.2 Downlink

## 6.10.2.4.5.7.2.1 Transport channel parameters

## 6.10.2.4.5.7.2.1.1 Transport channel parameters for HS-DSCH

## 6.10.2.4.5.7.2.1.1.1 MAC-d flow parameters for Streaming / unknown / DL: [max bit rate depending on UE category] kbps / PS RAB

See clause 6.10.2.4.5.6.2.1.1.1.

## 6.10.2.4.5.7.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

## 6.10.2.4.5.7.2.1.2 Transport channel parameters for DCH

## 6.10.2.4.5.7.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

## 6.10.2.4.5.7.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.5.7.2.1.2.3 TFCS

See clause 6.10.2.4.1.4.2.1.3.

## 6.10.2.4.5.7.2.2 Physical channel parameters

## 6.10.2.4.5.7.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

## 6.10.2.4.5.7.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

## 6.10.2.4.5.8 Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Interactive or Background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH

## 6.10.2.4.5.8.1 Uplink

## 6.10.2.4.5.8.1.1 Transport channel parameters

## 6.10.2.4.5.8.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.65 8.85 6.6) kbps / CS RAB

See clause 6.10.2.4.1.62.1.1.1

## 6.10.2.4.5.8.1.1.2 Transport Channel parameters for Interactive or background / UL: 384 kbps / PS RAB

|              |                      |         |
|--------------|----------------------|---------|
| Higher layer | RAB/Signalling RB    | RAB     |
| RLC          | Logical channel type | DTCH    |
|              | RLC mode             | AM      |
|              | Payload sizes, bit   | 320     |
|              | Max data rate, bps   | 384 000 |

|              |                                                             |            |        |
|--------------|-------------------------------------------------------------|------------|--------|
|              | AMD PDU header, bit                                         |            | 16     |
| MAC          | MAC header, bit                                             |            | 0      |
|              | MAC multiplexing                                            |            | N/A    |
| Layer 1      | TrCH type                                                   |            | DCH    |
|              | TB sizes, bit                                               |            | 336    |
|              | TFS                                                         | TF0, bits  | 0x336  |
|              |                                                             | TF1, bits  | 1x336  |
|              |                                                             | TF2, bits  | 2x336  |
|              |                                                             | TF3, bits  | 4x336  |
|              |                                                             | TF4, bits  | 8x336  |
|              |                                                             | TF5, bits  | 12x336 |
|              | TTI, ms                                                     |            | 10     |
|              | Coding type                                                 |            | TC     |
|              | CRC, bit                                                    |            | 16     |
|              | Max number of bits/TTI after channel coding                 |            | 12 684 |
|              | Uplink: Max number of bits/radio frame before rate matching |            | 12 684 |
| RM attribute |                                                             | 110 to 180 |        |

#### 6.10.2.4.5.8.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.5.8.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TFCS      | <p>((RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=<br/> (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br/> (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF0,TF0,TF0,TF0,TF1),<br/> (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1),<br/> (TF4,TF3,TF0,TF0,TF1),</p> <p>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br/> (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF0,TF0,TF0,TF1,TF1),<br/> (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1),<br/> (TF4,TF3,TF0,TF1,TF1),</p> <p>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br/> (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF0,TF0,TF0,TF2,TF1),<br/> (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1),<br/> (TF4,TF3,TF0,TF2,TF1),</p> <p>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),<br/> (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF0,TF0,TF0,TF3,TF1),<br/> (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1),<br/> (TF4,TF3,TF0,TF3,TF1),</p> <p>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),<br/> (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF0,TF0,TF0,TF4,TF1),<br/> (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1),<br/> (TF4,TF3,TF0,TF4,TF1),</p> <p>(TF0,TF0,TF0,TF5,TF0), (TF1,TF0,TF0,TF5,TF0), (TF2,TF1,TF0,TF5,TF0),<br/> (TF3,TF2,TF0,TF5,TF0), (TF4,TF3,TF0,TF5,TF0), (TF0,TF0,TF0,TF5,TF1),<br/> (TF1,TF0,TF0,TF5,TF1), (TF2,TF1,TF0,TF5,TF1), (TF3,TF2,TF0,TF5,TF1),<br/> (TF4,TF3,TF0,TF5,TF1)</p> |

## 6.10.2.4.5.8.1.1.5 TFC subset list

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFC subset list size | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| TFC subset list      | <p>0 = {(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF0,TF0,TF0,TF5,TF0), (TF1,TF0,TF0,TF5,TF0), (TF2,TF1,TF0,TF5,TF0), (TF0,TF0,TF0,TF5,TF1), (TF1,TF0,TF0,TF5,TF1), (TF2,TF1,TF0,TF5,TF1)},</p> <p>1 = {(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), (TF3,TF2,TF0,TF3,TF0), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF0,TF0,TF0,TF5,TF0), (TF1,TF0,TF0,TF5,TF0), (TF2,TF1,TF0,TF5,TF0), (TF3,TF2,TF0,TF5,TF0), (TF0,TF0,TF0,TF5,TF1), (TF1,TF0,TF0,TF5,TF1), (TF2,TF1,TF0,TF5,TF1), (TF3,TF2,TF0,TF5,TF1)},</p> <p>2 = {(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0), (TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0), (TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF0,TF0,TF0,TF5,TF0), (TF1,TF0,TF0,TF5,TF0), (TF2,TF1,TF0,TF5,TF0), (TF3,TF2,TF0,TF5,TF0), (TF4,TF3,TF0,TF5,TF0), (TF0,TF0,TF0,TF5,TF1), (TF1,TF0,TF0,TF5,TF1), (TF2,TF1,TF0,TF5,TF1), (TF3,TF2,TF0,TF5,TF1), (TF4,TF3,TF0,TF5,TF1)}</p> |

## 6.10.2.4.5.8.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 4     |
|             | Max number of DPDCH data bits/radio frame | 9 600 |
|             | Number of DPDCH                           | 1     |
|             | Puncturing Limit                          | 0.60  |

## 6.10.2.4.5.8.2 Downlink

## 6.10.2.4.5.8.2.1 Transport channel parameters

## 6.10.2.4.5.8.2.1.1 Transport channel parameters for HS-DSCH

See clause 6.10.2.4.5.1.2.1.1

## 6.10.2.4.5.8.2.1.2 Transport channel parameters for DCH

## 6.10.2.4.5.8.2.1.2.1 Transport channel parameters for Conversational / speech / DL: (12.65 8.85 6.6) kbps / CS RAB

See clause 6.10.2.4.1.62.2.1.1

## 6.10.2.4.5.8.2.1.2.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.5.8.2.1.2.3 Transport channel parameters for DL:0.15 kbps SRB#5 for DCCH

See clause 6.10.2.4.1.62.2.1.3

## 6.10.2.4.5.8.2.1.2.4 TFCS

See clause 6.10.2.4.1.62.2.1.4

## 6.10.2.4.5.8.2.2 Physical channel parameters

## 6.10.2.4.5.8.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.62.2.2

## 6.10.2.4.5.8.2.2.2 Physical Channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.1

## 6.10.2.4.5.9 Streaming MBMS PTP / unknown / UL:16 DL: [max bit rate depending on UE category] kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.5.9.1 Uplink

## 6.10.2.4.5.9.1.1 Transport channel parameters

## 6.10.2.4.5.9.1.1.1 Transport channel parameters for Streaming MBMS PTP / unknown / UL:16 kbps / PS RAB

| Higher Layer | RAB/Signalling RB                                           |           | RAB     |
|--------------|-------------------------------------------------------------|-----------|---------|
| RLC          | Logical channel type                                        |           | DTCH    |
|              | RLC mode                                                    |           | AM      |
|              | Payload sizes, bit                                          |           | 320     |
|              | Max data rate, bps                                          |           | 16000   |
|              | AM PDU header, bit                                          |           | 16      |
| MAC          | MAC header, bit                                             |           | 0       |
|              | MAC multiplexing                                            |           | N/A     |
| Layer 1      | TrCH type                                                   |           | DCH     |
|              | TB sizes, bit                                               |           | 336     |
|              | TFS                                                         | TF0, bits | 0x336   |
|              |                                                             | TF1, bits | 1x336   |
|              | TTI, ms                                                     |           | 20      |
|              | Coding type                                                 |           | TC      |
|              | CRC, bit                                                    |           | 16      |
|              | Max number of bits/TTI after channel coding                 |           | 1068    |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 534     |
|              | RM attribute                                                |           | 135-175 |

6.10.2.4.5.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.5.9.1.1.3 TFCS

|           |                                                                        |
|-----------|------------------------------------------------------------------------|
| TFCS size | 4                                                                      |
| TFCS      | (16 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

6.10.2.4.5.9.1.2 Physical channel parameters

|                |                                              |      |
|----------------|----------------------------------------------|------|
| DPCH<br>Uplink | Min spreading factor                         | 64   |
|                | Max number of DPDCH data<br>bits/radio frame | 600  |
|                | Puncturing Limit                             | 0.80 |

- 6.10.2.4.5.9.2 Downlink
- 6.10.2.4.5.9.2.1 Transport channel parameters
- 6.10.2.4.5.9.2.1.1 Transport channel parameters for HS-DSCH
- 6.10.2.4.5.9.2.1.1.1 MAC-d flow parameters for Streaming MBMS PTP / unknown / DL: [max bit rate depending on UE category] kbps / PS RAB

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 | Alt 1<br>Fixed RLC +<br>MAC-hs<br>(Rel-5 and later<br>releases)<br>NOTE 2 | Alt 2<br>Fixed RLC +<br>MAC-ehs<br>(Rel-7 and<br>later releases)<br>NOTE 2 | Alt 3<br>Flexible RLC +<br>MAC-ehs<br>(Rel-7 and later<br>releases)<br>NOTE 2 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Higher layer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RAB/Signalling RB               | RAB                                                                       |                                                                            |                                                                               |
| RLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Logical channel type            | DTCH                                                                      |                                                                            |                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RLC mode                        | AM                                                                        |                                                                            |                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Payload sizes, bit              | 640                                                                       | 640                                                                        | Flexible up to<br>12000<br>(NOTE 3)                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Max data rate, bps              | depends on UE category<br>NOTE 1                                          |                                                                            |                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AMD PDU header, bit             | 16                                                                        | 16                                                                         | 16                                                                            |
| MAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MAC-d header, bit               | 0                                                                         | 0                                                                          | 0                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MAC multiplexing                | N/A                                                                       | N/A                                                                        | N/A                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MAC-d PDU size, bit             | 656                                                                       | 656                                                                        | Flexible                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MAC-hs/MAC-ehs Type             | MAC-hs                                                                    | MAC-ehs                                                                    | MAC-ehs                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MAC-hs header fixed part, bit   | 21                                                                        | 24                                                                         | 24                                                                            |
| Layer 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TrCH type                       | HS-DSCH                                                                   | HS-DSCH                                                                    | HS-DSCH                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TTI                             | 2 ms                                                                      | 2 ms                                                                       | 2 ms                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Coding type                     | TC                                                                        | TC                                                                         | TC                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRC, bit                        | 24                                                                        | 24                                                                         | 24                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Applicable modulation schemes   | QPSK,<br>16QAM                                                            | QPSK,<br>16QAM,<br>64QAM                                                   | QPSK,<br>16QAM,<br>64QAM                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Applicable with MIMO            | No                                                                        | Yes                                                                        | Yes                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Applicable with Dual-Cell HSDPA | No                                                                        | Yes                                                                        | Yes                                                                           |
| <p>NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see 3GPP TS 25.321 [38]).</p> <p>NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case.</p> <p>NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits.</p> |                                 |                                                                           |                                                                            |                                                                               |

- 6.10.2.4.5.9.2.1.2 Transport channel parameters for DCH
- 6.10.2.4.5.9.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH
- See clause 6.10.2.4.1.2.2.1.1.
- 6.10.2.4.5.9.2.1.2.2 TFCS
- See clause 6.10.2.4.1.2.2.1.2.
- 6.10.2.4.5.9.2.2 Physical channel parameters
- 6.10.2.4.5.9.2.2.1 Physical channel parameters on DPCH
- See clause 6.10.2.4.1.2.2.2.

## 6.10.2.4.5.9.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.5.10 Streaming MBMS PTP / unknown / UL:16 DL: [max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.2.4.5.10.1 Uplink

## 6.10.2.4.5.10.1.1 Transport channel parameters

## 6.10.2.4.5.10.1.1.1 Transport channel parameters for Streaming MBMS PTP / unknown / UL:16 kbps / PS RAB

See clause 6.10.2.4.5.9.1.1.1.

## 6.10.2.4.5.10.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

See clause 6.10.2.4.1.57.1.1.1.

## 6.10.2.4.5.10.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.5.10.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20                                                                                                                                                                                                                                                                                                                                                                                                             |
| TFCS      | (16 kbps RAB, 64 kbps RAB + 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0),<br>(TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1),<br>(TF1, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1) |

## 6.10.2.4.5.10.1.2 Physical channel parameters

|                |                                           |      |
|----------------|-------------------------------------------|------|
| DPCH<br>Uplink | Min spreading factor                      | 16   |
|                | Max number of DPDCH data bits/radio frame | 2400 |
|                | Puncturing Limit                          | 0.68 |

## 6.10.2.4.5.10.2 Downlink

## 6.10.2.4.5.10.2.1 Transport channel parameters

## 6.10.2.4.5.10.2.1.1 Transport channel parameters for HS-DSCH

## 6.10.2.4.5.10.2.1.1.1 MAC-d flow parameters for Streaming MBMS PTP / unknown / DL: [max bit rate depending on UE category] kbps / PS RAB

See clause 6.10.2.4.5.9.2.1.1.1.

## 6.10.2.4.5.10.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

## 6.10.2.4.5.10.2.1.1.3 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.



6.10.2.4.5.10.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.10.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.10.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.5.10.2.2 Physical channel parameters

6.10.2.4.5.10.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.10.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.6 Combinations on HS-PDSCH and E-DPDCH

6.10.2.4.6.1 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.10.2.4.6.1.1 Uplink

6.10.2.4.6.1.1.1 Transport channel parameters

6.10.2.4.6.1.1.1.1 Transport channel parameters for E-DCH

6.10.2.4.6.1.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

|                                                                                                                                                                                                                                                                                                                                                                                              |                                            | Alt 1<br>Fixed RLC + MAC-<br>e/es (Rel-6 and later)<br>NOTE 2 | Alt 2<br>Fixed RLC + MAC-i/is<br>(Rel-8 and later<br>releases)<br>NOTE 2 | Alt 3<br>Flexible RLC + MAC-<br>i/is (Rel-8 and later<br>releases)<br>NOTE 2 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Higher layer                                                                                                                                                                                                                                                                                                                                                                                 | RAB/Signalling RB                          | RAB                                                           |                                                                          |                                                                              |
| RLC                                                                                                                                                                                                                                                                                                                                                                                          | Logical channel type                       | DTCH                                                          |                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                              | RLC mode                                   | AM                                                            |                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                              | Payload sizes, bit                         | 320 (alt 640)                                                 | 320 (alt 640)                                                            | Flexible from 80 up to 12000 (NOTE 3)                                        |
|                                                                                                                                                                                                                                                                                                                                                                                              | Max data rate, bps                         | Depends on UE category and TTI                                |                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                              | AMD PDU header, bit                        | 16                                                            |                                                                          |                                                                              |
| MAC                                                                                                                                                                                                                                                                                                                                                                                          | MAC multiplexing                           | N/A                                                           | N/A                                                                      | N/A                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                              | MAC-d PDU size, bit                        | 336 (alt 656)                                                 | 336 (alt 656)                                                            | Flexible from 96 up to 12016                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                              | MAC type                                   | MAC-e/es                                                      | MAC-i/is                                                                 | MAC-i/is                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                              | MAC-e/es / MAC-i/is header fixed part, bit | 18                                                            | 24 or 32 (NOTE 4)                                                        | 24 or 32 (NOTE 4)                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                              |                                            |                                                               |                                                                          |                                                                              |
| Layer 1                                                                                                                                                                                                                                                                                                                                                                                      | TrCH type                                  | E-DCH                                                         |                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                              | TTI                                        | 10ms (alt. 2ms) (NOTE 1)                                      |                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                              | Coding type                                | TC                                                            |                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                              | CRC, bit                                   | 24                                                            |                                                                          |                                                                              |
| NOTE 1: The support of 2ms TTI depends on the UE E-DCH physical layer category. For UE E-DCH physical layer categories 8 and 9 only 2 ms TTI is valid.                                                                                                                                                                                                                                       |                                            |                                                               |                                                                          |                                                                              |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-i/is) or 3 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case.                                                                                                                                                            |                                            |                                                               |                                                                          |                                                                              |
| NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter “Max SDU size”, ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. |                                            |                                                               |                                                                          |                                                                              |
| NOTE 4: MAC-i/is fixed header size is 24 bits for single cell E-DCH operation (TSN field length is 6 bits) or 32 bits for Dual Cell E-DCH operation (TSN field length is 14 bits).                                                                                                                                                                                                           |                                            |                                                               |                                                                          |                                                                              |

#### 6.10.2.4.6.1.1.1.2 Transport channel parameters for DCH

##### 6.10.2.4.6.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.6.1.1.2 Physical channel parameters

##### 6.10.2.4.6.1.1.2.1 Physical channel parameters on E-DPDCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE E-DPDCH Physical Layer category 1:

|         |                     |            |
|---------|---------------------|------------|
| E-DPDCH | Number of processes | 4          |
|         | Modulation          | QPSK       |
|         | TTI                 | 10 ms      |
|         | Max Data Rate       | 0.711 Mbps |

UE E-DPDCH Physical Layer category 2:

|         |                     |             |            |
|---------|---------------------|-------------|------------|
| E-DPDCH | Number of processes | 4           | 8          |
|         | Modulation          | QPSK        | QPSK       |
|         | TTI                 | 10 ms       | 2 ms       |
|         | Max Data Rate       | 1.4484 Mbps | 1.399 Mbps |

UE E-DPDCH Physical Layer category 3:

|         |                     |   |
|---------|---------------------|---|
| E-DPDCH | Number of processes | 4 |
|---------|---------------------|---|

|  |               |             |
|--|---------------|-------------|
|  | Modulation    | QPSK        |
|  | TTI           | 10 ms       |
|  | Max Data Rate | 1.4484 Mbps |

UE E-DPDCH Physical Layer category 4:

|         |                     |          |             |
|---------|---------------------|----------|-------------|
| E-DPDCH | Number of processes | 4        | 8           |
|         | Modulation          | QPSK     | QPSK        |
|         | TTI                 | 10 ms    | 2 ms        |
|         | Max Data Rate       | 2.0 Mbps | 2.2886 Mbps |

UE E-DPDCH Physical Layer category 5:

|         |                     |          |  |
|---------|---------------------|----------|--|
| E-DPDCH | Number of processes | 4        |  |
|         | Modulation          | QPSK     |  |
|         | TTI                 | 10 ms    |  |
|         | Max Data Rate       | 2.0 Mbps |  |

UE E-DPDCH Physical Layer category 6:

|         |                     |          |           |
|---------|---------------------|----------|-----------|
| E-DPDCH | Number of processes | 4        | 8         |
|         | Modulation          | QPSK     | QPSK      |
|         | TTI                 | 10 ms    | 2 ms      |
|         | Max Data Rate       | 2.0 Mbps | 5.742Mbps |

UE E-DPDCH Physical Layer category 7 (QPSK or 16QAM):

|         |                     |          |              |
|---------|---------------------|----------|--------------|
| E-DPDCH | Number of processes | 4        | 8            |
|         | Modulation          | QPSK     | QPSK (16QAM) |
|         | TTI                 | 10 ms    | 2 ms         |
|         | Max Data Rate       | 2.0 Mbps | 11.498 Mbps  |

UE E-DPDCH Physical Layer category 8 (Dual-cell + QPSK):

|         |                     |             |
|---------|---------------------|-------------|
| E-DPDCH | Number of processes | 8           |
|         | Modulation          | QPSK        |
|         | TTI                 | 2 ms        |
|         | Max Data Rate       | 11.484 Mbps |

UE E-DPDCH Physical Layer category 9 (Dual-cell + QPSK or 16QAM):

|         |                     |              |
|---------|---------------------|--------------|
| E-DPDCH | Number of processes | 8            |
|         | Modulation          | QPSK (16QAM) |
|         | TTI                 | 2 ms         |
|         | Max Data Rate       | 22.996 Mbps  |

#### 6.10.2.4.6.1.1.2.2 Physical channel parameters for DPCH

See clause 6.10.2.4.1.2.1.2

#### 6.10.2.4.6.1.2 Downlink

See clause 6.10.2.4.5.1.2.

6.10.2.4.6.1a Stand-alone UL: [max bit rate depending on UE category and TTI] DL:[max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

#### 6.10.2.4.6.1a.1 Uplink

#### 6.10.2.4.6.1a.1.1 Transport channel parameters

6.10.2.4.6.1a.1.1.1 Transport channel parameters for E-DCH

6.10.2.4.6.1a.1.1.1.1 MAC-d flow parameters for Stand-alone UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2

6.10.2.4.6.1a.1.2 Physical channel parameters

6.10.2.4.6.1a.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.10.2.4.6.1a.2 Downlink

6.10.2.4.6.1a.2.1 Transport channel parameters

6.10.2.4.6.1a.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.6.1a.2.1.1.1 MAC-d flow parameters for Stand-alone DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2

6.10.2.4.6.1a.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

6.10.2.4.6.1a.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.6.2 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: 3.4 kbps SRBs for DCCH on E-DCH and DL DCH

6.10.2.4.6.2.1 Uplink

6.10.2.4.6.2.1.1 Transport channel parameters

6.10.2.4.6.2.1.1.1 Transport channel parameters for E-DCH

6.10.2.4.6.2.1.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1.

6.10.2.4.6.2.1.1.1.2 MAC-d flow#2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

|              |                      | Alt 1<br>Fixed RLC + MAC-e/es<br>(Rel-6 and later releases)<br>NOTE 2 |       |       |       | Alt 2<br>Fixed RLC + MAC-i/is<br>(Rel-8 and later releases)<br>NOTE 2 |       |       |       |
|--------------|----------------------|-----------------------------------------------------------------------|-------|-------|-------|-----------------------------------------------------------------------|-------|-------|-------|
| Higher layer | RAB/Signalling RB    | SRB#1                                                                 | SRB#2 | SRB#3 | SRB#4 | SRB#1                                                                 | SRB#2 | SRB#3 | SRB#4 |
| RLC          | Logical channel type | DCCH                                                                  | DCCH  | DCCH  | DCCH  | DCCH                                                                  | DCCH  | DCCH  | DCCH  |
|              | RLC mode             | UM                                                                    | AM    | AM    | AM    | UM                                                                    | AM    | AM    | AM    |
|              | Payload sizes, bit   | 136                                                                   | 128   | 128   | 128   | 136                                                                   | 128   | 128   | 128   |
|              | Max data rate, bps   | Depends on UE category and TTI                                        |       |       |       |                                                                       |       |       |       |
|              | AMD PDU header, bit  | 8                                                                     | 16    | 16    | 16    | 8                                                                     | 16    | 16    | 16    |
| MAC          | MAC-es multiplexing  | 4 logical channel multiplexing                                        |       |       |       | 4 logical channel multiplexing                                        |       |       |       |
|              | MAC-d PDU size, bit  | 144                                                                   |       |       |       | 144                                                                   |       |       |       |
|              | MAC type             | MAC-e/es                                                              |       |       |       | MAC-i/is                                                              |       |       |       |

|                                                                                                                                                                                                    |                                            |                          |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|--------------------------|
|                                                                                                                                                                                                    | MAC-e/es / MAC-i/is header fixed part, bit | 18                       | 24                       |
| Layer 1                                                                                                                                                                                            | TrCH type                                  | E-DCH                    | E-DCH                    |
|                                                                                                                                                                                                    | TTI                                        | 10ms (alt. 2ms) (NOTE 1) | 10ms (alt. 2ms) (NOTE 1) |
|                                                                                                                                                                                                    | Coding type                                | TC                       | TC                       |
|                                                                                                                                                                                                    | CRC, bit                                   | 24                       | 24                       |
| NOTE 1: The support of 2ms TTI depends on the UE category.                                                                                                                                         |                                            |                          |                          |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-i/is) then this shall be explicitly stated in the test case. |                                            |                          |                          |

#### 6.10.2.4.6.2.1.2 Physical channel parameters

##### 6.10.2.4.6.2.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

#### 6.10.2.4.6.2.2 Downlink

See clause 6.10.2.4.5.1.2.

6.10.2.4.6.3 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

#### 6.10.2.4.6.3.1 Uplink

See clause 6.10.2.4.6.2.

##### 6.10.2.4.6.3.1.2 Physical channel parameters

##### 6.10.2.4.6.3.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

#### 6.10.2.4.6.3.2 Downlink

##### 6.10.2.4.6.3.2.1 Transport channel parameters

##### 6.10.2.4.6.3.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.6.3.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

## 6.10.2.4.6.3.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

|                                                                                                                                                                                                 |                                 | Alt 1<br>Fixed RLC + MAC-hs<br>(Rel-5 and later releases)<br>NOTE 2 |       |       |       | Alt 2<br>Fixed RLC + MAC-ehs<br>(Rel-7 and later releases)<br>NOTE 2 |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------|-------|-------|-------|----------------------------------------------------------------------|-------|-------|-------|
| Higher layer                                                                                                                                                                                    | RAB/Signalling RB               | SRB#1                                                               | SRB#2 | SRB#3 | SRB#4 | SRB#1                                                                | SRB#2 | SRB#3 | SRB#4 |
| RLC                                                                                                                                                                                             | Logical channel type            | DCCH                                                                | DCCH  | DCCH  | DCCH  | DCCH                                                                 | DCCH  | DCCH  | DCCH  |
|                                                                                                                                                                                                 | RLC mode                        | UM                                                                  | AM    | AM    | AM    | UM                                                                   | AM    | AM    | AM    |
|                                                                                                                                                                                                 | Payload sizes, bit              | 136                                                                 | 128   | 128   | 128   | 136                                                                  | 128   | 128   | 128   |
|                                                                                                                                                                                                 | Max data rate, bps              | Depends on UE category (NOTE 1)                                     |       |       |       |                                                                      |       |       |       |
|                                                                                                                                                                                                 | AMD PDU header, bit             | 8                                                                   | 16    | 16    | 16    | 8                                                                    | 16    | 16    | 16    |
| MAC                                                                                                                                                                                             | MAC-d header, bit               | 4                                                                   | 4     | 4     | 4     | 0                                                                    |       |       |       |
|                                                                                                                                                                                                 | MAC multiplexing                | 4 logical channel multiplexing                                      |       |       |       | N/A                                                                  |       |       |       |
|                                                                                                                                                                                                 | MAC-d PDU size, bit             | 148                                                                 |       |       |       | 144                                                                  |       |       |       |
|                                                                                                                                                                                                 | MAC-hs Type                     | MAC-hs                                                              |       |       |       | MAC-ehs                                                              |       |       |       |
|                                                                                                                                                                                                 | MAC-hs header fixed part, bit   | 21                                                                  |       |       |       | 24                                                                   |       |       |       |
| Layer 1                                                                                                                                                                                         | TrCH type                       | HS-DSCH                                                             |       |       |       | HS-DSCH                                                              |       |       |       |
|                                                                                                                                                                                                 | TTI                             | 2 ms                                                                |       |       |       | 2 ms                                                                 |       |       |       |
|                                                                                                                                                                                                 | Coding type                     | TC                                                                  |       |       |       | TC                                                                   |       |       |       |
|                                                                                                                                                                                                 | CRC, bit                        | 24                                                                  |       |       |       | 24                                                                   |       |       |       |
|                                                                                                                                                                                                 | Applicable modulation schemes   | QPSK, 16QAM                                                         |       |       |       | QPSK, 16QAM, 64QAM                                                   |       |       |       |
|                                                                                                                                                                                                 | Applicable with MIMO            | No                                                                  |       |       |       | Yes                                                                  |       |       |       |
|                                                                                                                                                                                                 | Applicable with Dual-Cell HSDPA | No                                                                  |       |       |       | Yes                                                                  |       |       |       |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]).                                           |                                 |                                                                     |       |       |       |                                                                      |       |       |       |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) then this shall be explicitly stated in the test case. |                                 |                                                                     |       |       |       |                                                                      |       |       |       |

#### 6.10.2.4.6.3.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

##### 6.10.2.4.6.3.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.6.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.2.4.6.4.1 Uplink

##### 6.10.2.4.6.4.1.1 Transport channel parameters

##### 6.10.2.4.6.4.1.1.1 Transport channel parameters for E-DCH

6.10.2.4.6.4.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1.

##### 6.10.2.4.6.4.1.1.2 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.1.1.1.

##### 6.10.2.4.6.4.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

##### 6.10.2.4.6.4.1.1.4 TFCS

See clause 6.10.2.4.1.4.1.1.3.

##### 6.10.2.4.6.4.1.2 Physical channel parameters

##### 6.10.2.4.6.4.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

##### 6.10.2.4.6.4.1.2.2 Physical channel parameters on DCH

See clause 6.10.2.4.1.4.1.2.

##### 6.10.2.4.6.4.2 Downlink

See clause 6.10.2.4.5.3.2.

6.10.2.4.6.5 Streaming or interactive or background / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH

##### 6.10.2.4.6.5.1 Uplink

##### 6.10.2.4.6.5.1.1 Transport channel parameters

##### 6.10.2.4.6.5.1.1.1 Transport channel parameters for E-DCH

MAC-e multiplexing between all MAC-d flows in the same MAC-e PDU shall be configured.

6.10.2.4.6.5.1.1.1.1 MAC-d flow #1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1.

6.10.2.4.6.5.1.1.1.2 MAC-d flow #2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1.

6.10.2.4.6.5.1.1.1.3 MAC-d flow #3 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2.

6.10.2.4.6.5.1.2 Physical channel parameters

6.10.2.4.6.5.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.10.2.4.6.5.2 Downlink

See clause 6.10.2.4.5.6.2.

6.10.2.4.6.6 Conversational / unknown or speech / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-6)

6.10.2.4.6.6.1 Uplink

6.10.2.4.6.6.1.1 Transport channel parameters

6.10.2.4.6.6.1.1.1 Transport channel parameters for E-DCH

6.10.2.4.6.6.1.1.1.1 MAC-d flow #1 parameters for Conversational / unknown or speech / UL: [max bit rate depending on UE category and TTI] / PS RAB



|                                                                                                                                                                                                                                                                                                                                                                                                |                                               | Alt 1<br>Fixed RLC + MAC-<br>e/es (Rel-6 and later)<br>NOTE 2                 | Alt 2<br>Flexible RLC + MAC-<br>i/is (Rel-8 and later<br>releases)<br>NOTE 2 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Higher layer                                                                                                                                                                                                                                                                                                                                                                                   | RAB/Signalling RB                             | RAB                                                                           |                                                                              |
| PDPCP                                                                                                                                                                                                                                                                                                                                                                                          | PDPCP header size, bit                        | 0                                                                             |                                                                              |
| RLC                                                                                                                                                                                                                                                                                                                                                                                            | Logical channel type                          | DTCH                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | RLC mode                                      | UM                                                                            |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | Payload sizes, bit                            | 88, 104, 136, 152, 168,<br>184, 200, 216, 280,<br>288, 304, 336 (alt 328)     | Flexible from 88 up to<br>12000<br>(NOTE 3)                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                | Max data rate, bps                            | Depends on UE category and TTI                                                |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | UMD PDU header, bit                           | 8                                                                             |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC                                           | N/A                                                                           |                                                                              |
| MAC                                                                                                                                                                                                                                                                                                                                                                                            | MAC multiplexing                              | N/A                                                                           |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC-d PDU size, bit                           | 96, 112 , 144, 160,<br>176, 192, 208, 224,<br>288, 296, 312, 344 (alt<br>336) | Flexible from 96 up to<br>12008                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC type                                      | MAC-e/es                                                                      | MAC-i/is                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC-e/es / MAC-i/is header<br>fixed part, bit | 18                                                                            | 24                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                |                                               |                                                                               |                                                                              |
| Layer 1                                                                                                                                                                                                                                                                                                                                                                                        | TrCH type                                     | E-DCH                                                                         |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | TTI                                           | 10ms (alt. 2ms) (NOTE 1)                                                      |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | Coding type                                   | TC                                                                            |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | CRC, bit                                      | 24                                                                            |                                                                              |
| NOTE 1: The support of 2ms TTI depends on the UE category                                                                                                                                                                                                                                                                                                                                      |                                               |                                                                               |                                                                              |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternative 2 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case.                                                                                                                                                                                           |                                               |                                                                               |                                                                              |
| NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDPCP layer is limited to 12000 bits (1500 octets limit in QoS parameter “Max SDU size”, ref: TS 24.008 clause 10.5.6.5). As no PDPCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. |                                               |                                                                               |                                                                              |

6.10.2.4.6.1.1.1.2 MAC-d flow #2 parameters for Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.

6.10.2.4.6.1.1.1.3 MAC-d flow #3 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2.

6.10.2.4.6.1.2 Physical channel parameters

6.10.2.4.6.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.10.2.4.6.2 Downlink

6.10.2.4.6.2.1 Transport channel parameters

## 6.10.2.4.6.2.1.1 Transport channel parameters for HS-DSCH

## 6.10.2.4.6.2.1.1.1 MAC-d flow#1 parameters for Conversational / unknown or speech / DL: [max bit rate depending on UE category] kbps / PS RAB

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   | <b>Alt 1<br/>Fixed RLC +<br/>MAC-hs<br/>(Rel-5 and later<br/>releases)<br/>NOTE 2</b> | <b>Alt 2<br/>Fixed RLC +<br/>MAC-ehs<br/>(Rel-7 and later<br/>releases)<br/>NOTE 2</b> | <b>Alt 3<br/>Flexible RLC +<br/>MAC-ehs<br/>(Rel-7 and later<br/>releases)<br/>NOTE 2</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Higher Layer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RAB/Signalling RB                 | <b>RAB</b>                                                                            |                                                                                        |                                                                                           |
| RLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Logical channel type              | DTCH                                                                                  |                                                                                        |                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RLC mode                          | UM                                                                                    |                                                                                        |                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Payload sizes, bit                | 104, 136, 152,<br>168, 184, 216,<br>288, 336 (alt 328 )                               | 104, 136, 152,<br>168, 184, 216,<br>288, 336 (alt 328 )                                | Flexible up to<br>12000<br>(NOTE 3)                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Max data rate, bps                | depends on UE category<br>NOTE1                                                       |                                                                                        |                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UMD PDU header, bit               | 8                                                                                     | 8                                                                                      | 8                                                                                         |
| MAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MAC-d header, bit                 | 0                                                                                     | 0                                                                                      | 0                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAC multiplexing                  | N/A                                                                                   | N/A                                                                                    | N/A                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAC-d PDU size, bit               | 112 , 144, 160,<br>176, 192, 224,<br>296, 344 (alt 336)                               | 112 , 144, 160,<br>176, 192, 224,<br>296, 344 (alt 336)                                | Flexible                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAC-hs Type                       | MAC-hs                                                                                | MAC-ehs                                                                                | MAC-ehs                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAC-hs/ehs header fixed part, bit | 21                                                                                    | 24                                                                                     | 24                                                                                        |
| Layer 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TrCH type                         | HS-DSCH                                                                               | HS-DSCH                                                                                | HS-DSCH                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TTI                               | 2 ms                                                                                  | 2 ms                                                                                   | 2 ms                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Coding type                       | TC                                                                                    | TC                                                                                     | TC                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRC, bit                          | 24                                                                                    | 24                                                                                     | 24                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Applicable modulation schemes     | QPSK,<br>16QAM                                                                        | QPSK,<br>16QAM, 64QAM                                                                  | QPSK,<br>16QAM, 64QAM                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Applicable with MIMO              | No                                                                                    | Yes                                                                                    | Yes                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Applicable with Dual-Cell HSDPA   | No                                                                                    | Yes                                                                                    | Yes                                                                                       |
| NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]).<br>NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case.<br>NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. |                                   |                                                                                       |                                                                                        |                                                                                           |

## 6.10.2.4.6.2.1.1.2 MAC-d flow#2 parameters for Streaming or Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

## 6.10.2.4.6.2.1.1.3 MAC-d flow#3 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2.

## 6.10.2.4.6.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

## 6.10.2.4.6.2.2.1 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.6.7 Conversational / unknown or speech / UL:[max bit rate depending on UE category and TTI]  
DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate

depending on UE category] / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH (REL-6)

#### 6.10.2.4.6.7.1 Uplink

##### 6.10.2.4.6.7.1.1 Transport channel parameters

##### 6.10.2.4.6.7.1.1.1 Transport channel parameters for E-DCH

##### 6.10.2.4.6.7.1.1.1.1 MAC-d flow #1 parameters for Conversational / unknown or speech / UL: [max bit rate depending on UE category and TTI] / PS RAB

|                                                                                                                                                                                                                                                                                                                                                                                                |                                               | Alt 1<br>Fixed RLC + MAC-<br>e/es (Rel-6 and later)<br>NOTE 2                 | Alt 2<br>Flexible RLC + MAC-<br>i/is (Rel-8 and later<br>releases)<br>NOTE 2 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Higher layer                                                                                                                                                                                                                                                                                                                                                                                   | RAB/Signalling RB                             | RAB                                                                           |                                                                              |
| PDPCP                                                                                                                                                                                                                                                                                                                                                                                          | PDPCP header size, bit                        | 0                                                                             |                                                                              |
| RLC                                                                                                                                                                                                                                                                                                                                                                                            | Logical channel type                          | DTCH                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | RLC mode                                      | UM                                                                            |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | Payload sizes, bit                            | 88, 104, 136, 152, 168,<br>184, 200, 216, 280,<br>288, 304, 328 (alt 336)     | Flexible from 88 up to<br>12000<br>(NOTE 3)                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                | Max data rate, bps                            | Depends on UE category and TTI                                                |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | UMD PDU header, bit                           | 8                                                                             |                                                                              |
| MAC                                                                                                                                                                                                                                                                                                                                                                                            | MAC multiplexing                              | N/A                                                                           |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC-d PDU size, bit                           | 96, 112 , 144, 160,<br>176, 192, 208, 224,<br>288, 296, 312, 336 (alt<br>344) | Flexible from 96 up to<br>12008                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC type                                      | MAC-e/es                                                                      | MAC-i/is                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC-e/es / MAC-i/is header<br>fixed part, bit | 18                                                                            | 24                                                                           |
| Layer 1                                                                                                                                                                                                                                                                                                                                                                                        | TrCH type                                     | E-DCH                                                                         |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | TTI                                           | 10ms (alt. 2ms) (NOTE 1)                                                      |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | Coding type                                   | TC                                                                            |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | CRC, bit                                      | 24                                                                            |                                                                              |
| NOTE 1: The support of 2ms TTI depends on the UE category                                                                                                                                                                                                                                                                                                                                      |                                               |                                                                               |                                                                              |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternative 2 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case.                                                                                                                                                                                           |                                               |                                                                               |                                                                              |
| NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDPCP layer is limited to 12000 bits (1500 octets limit in QoS parameter “Max SDU size”, ref: TS 24.008 clause 10.5.6.5). As no PDPCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. |                                               |                                                                               |                                                                              |

##### 6.10.2.4.6.7.1.1.1.2 MAC-d flow #2 parameters for Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1.

##### 6.10.2.4.6.7.1.1.1.3 MAC-d flow #3 parameters for Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1.

##### 6.10.2.4.6.7.1.1.1.4 MAC-d flow #4 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2.

## 6.10.2.4.6.7.1.2 Physical channel parameters

## 6.10.2.4.6.7.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

## 6.10.2.4.6.7.2 Downlink

## 6.10.2.4.6.7.2.1 Transport channel parameters

## 6.10.2.4.6.7.2.1.1 Transport channel parameters for HS-DSCH

## 6.10.2.4.6.7.2.1.1.1 MAC-d flow#1 parameters for Conversational / unknown or speech / DL: [max bit rate depending on UE category] kbps / PS RAB

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   | <b>Alt 1<br/>Fixed RLC +<br/>MAC-hs<br/>(Rel-5 and later<br/>releases)<br/>NOTE 2</b> | <b>Alt 2<br/>Fixed RLC +<br/>MAC-ehs<br/>(Rel-7 and later<br/>releases)<br/>NOTE 2</b> | <b>Alt 3<br/>Flexible RLC +<br/>MAC-ehs<br/>(Rel-7 and later<br/>releases)<br/>NOTE 2</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Higher Layer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RAB/Signalling RB                 | <b>RAB</b>                                                                            |                                                                                        |                                                                                           |
| RLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Logical channel type              | DTCH                                                                                  |                                                                                        |                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RLC mode                          | UM                                                                                    |                                                                                        |                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Payload sizes, bit                | 104, 136, 152,<br>168, 184, 216,<br>288, 328 (alt 336 )                               | 104, 136, 152,<br>168, 184, 216,<br>288, 328 (alt 336 )                                | Flexible up to<br>12000<br>(NOTE 3)                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Max data rate, bps                | depends on UE category<br>NOTE1                                                       |                                                                                        |                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UMD PDU header, bit               | 8                                                                                     | 8                                                                                      | 8                                                                                         |
| MAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MAC-d header, bit                 | 0                                                                                     | 0                                                                                      | 0                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAC multiplexing                  | N/A                                                                                   | N/A                                                                                    | N/A                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAC-d PDU size, bit               | 112 , 144, 160,<br>176, 192, 224,<br>296, 336 (alt 344)                               | 112 , 144, 160,<br>176, 192, 224,<br>296, 336 (alt 344)                                | Flexible                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAC-hs Type                       | MAC-hs                                                                                | MAC-ehs                                                                                | MAC-ehs                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAC-hs/ehs header fixed part, bit | 21                                                                                    | 24                                                                                     | 24                                                                                        |
| Layer 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TrCH type                         | HS-DSCH                                                                               | HS-DSCH                                                                                | HS-DSCH                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TTI                               | 2 ms                                                                                  | 2 ms                                                                                   | 2 ms                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Coding type                       | TC                                                                                    | TC                                                                                     | TC                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRC, bit                          | 24                                                                                    | 24                                                                                     | 24                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Applicable modulation schemes     | QPSK,<br>16QAM                                                                        | QPSK,<br>16QAM, 64QAM                                                                  | QPSK,<br>16QAM, 64QAM                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Applicable with MIMO              | No                                                                                    | Yes                                                                                    | Yes                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Applicable with Dual-Cell HSDPA   | No                                                                                    | Yes                                                                                    | Yes                                                                                       |
| NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]).<br>NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case.<br>NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. |                                   |                                                                                       |                                                                                        |                                                                                           |

## 6.10.2.4.6.7.2.1.1.2 MAC-d flow#2 parameters for Streaming or Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

## 6.10.2.4.6.7.2.1.1.3 MAC-d flow#3 parameters for Streaming or Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.10.2.4.6.7.2.1.1.4 MAC-d flow#4 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2.

6.10.2.4.6.7.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

6.10.2.4.6.7.2.2.1 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.6.8 Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH

6.10.2.4.6.8.1 Uplink

6.10.2.4.6.8.1.1 Transport channel parameters

6.10.2.4.6.8.1.1.1 Transport channel parameters for E-DCH

6.10.2.4.6.8.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.2.4.6.1.1.1.1.1

6.10.2.4.6.8.1.1.2 Transport channel parameters for Conversational / speech / UL: (12.65 8.85 6.6) kbps / CS RAB

See clause 6.10.2.4.1.62.1.1.1

6.10.2.4.6.8.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.6.8.1.1.4 TFCS

See clause 6.10.2.4.1.62.1.1.3

6.10.2.4.6.8.1.1.5 TFC subset list

See clause 6.10.2.4.1.62.1.1.4

6.10.2.4.6.8.1.2 Physical channel parameters

6.10.2.4.6.8.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1

6.10.2.4.6.8.1.2.2 Physical channel parameters on DCH

See clause 6.10.2.4.1.62.1.2

6.10.2.4.6.8.2 Downlink

See clause 6.10.2.4.5.8.2

- 6.10.2.4.6.9 Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) kbps DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB on E-DCH and HS-DSCH + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH
- 6.10.2.4.6.9.1 Uplink
- 6.10.2.4.6.9.1.1 Transport channel parameters
- 6.10.2.4.6.9.1.1.1 Transport channel parameters for E-DCH
- 6.10.2.4.6.9.1.1.1.1 MAC-d flow #1 parameters for Conversational / speech / UL:(12.2, 7.75, 5.9, 4.75) kbps / CS RAB (non-scheduled)

|                                                                                                                                                                                                                                                                                                                                                                                                |                                            | Alt 1<br>Fixed RLC + MAC-<br>e/es (Rel-6 and later)<br>NOTE 3 | Alt 2<br>Flexible RLC + MAC-<br>i/is (Rel-8 and later<br>releases)<br>NOTE 3 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------|
| Higher layer                                                                                                                                                                                                                                                                                                                                                                                   | RAB/Signalling RB                          | RAB                                                           |                                                                              |
| PDPCP                                                                                                                                                                                                                                                                                                                                                                                          | Header size, bit                           | 8                                                             |                                                                              |
| RLC                                                                                                                                                                                                                                                                                                                                                                                            | Logical channel type                       | DTCH                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | RLC mode                                   | UM                                                            |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | Payload sizes, bit                         | 48, 104, 128, 168, 256                                        | Flexible from 48 up to up to 12000 (NOTE 4)                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                | Max data rate, bps                         | Depends on UE category and TTI                                |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | UMD PDU header, bit                        | 8                                                             |                                                                              |
| MAC                                                                                                                                                                                                                                                                                                                                                                                            | MAC multiplexing                           | N/A                                                           |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC-d PDU size, bit                        | 56, 112, 136, 176, 264 (non-scheduled) NOTE1                  | Flexible                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC type                                   | MAC-e/es                                                      | MAC-i/is                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC-e/es / MAC-i/is header fixed part, bit | 18                                                            | 24                                                                           |
| Layer 1                                                                                                                                                                                                                                                                                                                                                                                        | TrCH type                                  | E-DCH                                                         |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | TTI                                        | 10ms (alt. 2ms) (NOTE 2)                                      |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | Coding type                                | TC                                                            |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | CRC, bit                                   | 24                                                            |                                                                              |
| NOTE1: Max MAC-e PDU content sizes depends on non-scheduled grant given by SRNC                                                                                                                                                                                                                                                                                                                |                                            |                                                               |                                                                              |
| NOTE 2: The support of 2ms TTI depends on the UE category                                                                                                                                                                                                                                                                                                                                      |                                            |                                                               |                                                                              |
| NOTE 3: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternative 2 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case.                                                                                                                                                                                           |                                            |                                                               |                                                                              |
| NOTE 4: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDPCP layer is limited to 12000 bits (1500 octets limit in QoS parameter “Max SDU size”, ref: TS 24.008 clause 10.5.6.5). As no PDPCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. |                                            |                                                               |                                                                              |

- 6.10.2.4.6.9.1.1.1.2 MAC-d flow #2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2.

- 6.10.2.4.6.9.1.2 Physical channel parameters

- 6.10.2.4.6.9.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

## 6.10.2.4.6.9.2 Downlink

## 6.10.2.4.6.9.2.1 Transport channel parameters

## 6.10.2.4.6.9.2.1.1 Transport channel parameters for HS-DSCH

## 6.10.2.4.6.9.2.1.1.1 MAC-d flow#1 parameters for Conversational / speech / DL:(12.2, 7,75, 5.9, 4.75) kbps / CS RAB

|                                                                                                                                                                                               |                                   | <b>Alt 1<br/>RLC + MAC-hs<br/>(Rel-5 and later<br/>releases)<br/>NOTE2</b> | <b>Alt 2<br/>RLC + MAC-ehs<br/>(Rel-7 and later<br/>releases)<br/>NOTE2</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Higher Layer                                                                                                                                                                                  | RAB/Signalling RB                 | RAB                                                                        |                                                                             |
| PDPC                                                                                                                                                                                          | Header size, bit                  | 8                                                                          |                                                                             |
| RLC                                                                                                                                                                                           | Logical channel type              | DTCH                                                                       |                                                                             |
|                                                                                                                                                                                               | RLC mode                          | UM                                                                         |                                                                             |
|                                                                                                                                                                                               | Payload sizes, bit                | 48, 104, 128, 168, 256                                                     | 48, 104, 128, 168, 256                                                      |
|                                                                                                                                                                                               | Max data rate, bps                | depends on UE category<br>NOTE1                                            |                                                                             |
|                                                                                                                                                                                               | UMD PDU header, bit               | 8                                                                          | 8                                                                           |
| MAC                                                                                                                                                                                           | MAC-d header, bit                 | 0                                                                          | 0                                                                           |
|                                                                                                                                                                                               | MAC multiplexing                  | N/A                                                                        | N/A                                                                         |
|                                                                                                                                                                                               | MAC-d PDU size, bit               | 56, 112, 136, 176, 264                                                     | 56, 112, 136, 176, 264                                                      |
|                                                                                                                                                                                               | MAC-hs Type                       | MAC-hs                                                                     | MAC-ehs                                                                     |
|                                                                                                                                                                                               | MAC-hs/ehs header fixed part, bit | 21                                                                         | 24                                                                          |
| Layer 1                                                                                                                                                                                       | TrCH type                         | HS-DSCH                                                                    | HS-DSCH                                                                     |
|                                                                                                                                                                                               | TTI                               | 2 ms                                                                       | 2 ms                                                                        |
|                                                                                                                                                                                               | Coding type                       | TC                                                                         | TC                                                                          |
|                                                                                                                                                                                               | CRC, bit                          | 24                                                                         | 24                                                                          |
|                                                                                                                                                                                               | Applicable modulation schemes     | QPSK, 16QAM                                                                | QPSK, 16QAM, 64QAM                                                          |
|                                                                                                                                                                                               | Applicable with MIMO              | No                                                                         | Yes                                                                         |
|                                                                                                                                                                                               | Applicable with Dual-Cell HSDPA   | No                                                                         | Yes                                                                         |
| NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see [25.321]).                                          |                                   |                                                                            |                                                                             |
| NOTE2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternative 2 (Fixed RLC + MAC-ehs) then this shall be explicitly stated in the test case. |                                   |                                                                            |                                                                             |

## 6.10.2.4.6.9.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2.

## 6.10.2.4.6.9.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

## 6.10.2.4.6.9.2.2.1 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.10.2.4.6.10 Conversational / speech / UL:(12.65, 8.85, 6.6) kbps DL: (12.65, 8.85, 6.6) kbps / CS RAB on E-DCH and HS-DSCH + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.10.2.4.6.10.1 Uplink

6.10.2.4.6.10.1.1 Transport channel parameters

6.10.2.4.6.10.1.1.1 Transport channel parameters for E-DCH

6.10.2.4.6.10.1.1.1.1 MAC-d flow#1 parameters for Conversational / speech / UL:(12.65, 8.85, 6.6) kbps / CS RAB (non-scheduled)

|                                                                                                                                                                                                                                                                                                                                                                                                |                                               | Alt 1<br>Fixed RLC + MAC-<br>e/es (Rel-6 and later)<br>NOTE 3 | Alt 2<br>Flexible RLC + MAC-<br>i/is (Rel-8 and later<br>releases)<br>NOTE 3 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------|
| Higher layer                                                                                                                                                                                                                                                                                                                                                                                   | RAB/Signalling RB                             | RAB                                                           |                                                                              |
| PDCCP                                                                                                                                                                                                                                                                                                                                                                                          | Header size, bit                              | 8                                                             |                                                                              |
| RLC                                                                                                                                                                                                                                                                                                                                                                                            | Logical channel type                          | DTCH                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | RLC mode                                      | UM                                                            |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | Payload sizes, bit                            | 48, 144, 192, 264                                             | Flexible from 48 up to<br>up to12000<br>(NOTE 4)                             |
|                                                                                                                                                                                                                                                                                                                                                                                                | Max data rate, bps                            | Depends on UE category and TTI                                |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | UMD PDU header, bit                           | 8                                                             |                                                                              |
| MAC                                                                                                                                                                                                                                                                                                                                                                                            | MAC multiplexing                              | N/A                                                           |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC-d PDU size, bit                           | 56, 152, 200, 272 (non-<br>scheduled) NOTE1                   | Flexible                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC type                                      | MAC-e/es                                                      | MAC-i/is                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC-e/es / MAC-i/is header<br>fixed part, bit | 18                                                            | 24                                                                           |
| Layer 1                                                                                                                                                                                                                                                                                                                                                                                        | TrCH type                                     | E-DCH                                                         |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | TTI                                           | 10ms (alt. 2ms) (NOTE 2)                                      |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | Coding type                                   | TC                                                            |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | CRC, bit                                      | 24                                                            |                                                                              |
| NOTE 1: Max MAC-e PDU content sizes depends on non-scheduled grant given by SRNC                                                                                                                                                                                                                                                                                                               |                                               |                                                               |                                                                              |
| NOTE 2: The support of 2ms TTI depends on the UE category                                                                                                                                                                                                                                                                                                                                      |                                               |                                                               |                                                                              |
| NOTE 3: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternative 2 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case.                                                                                                                                                                                           |                                               |                                                               |                                                                              |
| NOTE 4: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCCP layer is limited to 12000 bits (1500 octets limit in QoS parameter “Max SDU size”, ref: TS 24.008 clause 10.5.6.5). As no PDCCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. |                                               |                                                               |                                                                              |

6.10.2.4.6.10.1.1.1.2. MAC-d flow#2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2.

6.10.2.4.6.10.1.2 Physical channel parameters

6.10.2.4.6.10.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.



## 6.10.2.4.6.10.2 Downlink

## 6.10.2.4.6.10.2.1 Transport channel parameters

## 6.10.2.4.6.10.2.1.1 Transport channel parameters for HS-DSCH

## 6.10.2.4.6.10.2.1.1.1 MAC-d flow#1 parameters for Conversational / speech / DL:(12.65, 8.85, 6.6) kbps / CS RAB

|                                                                                                                                                                                               |                                   | <b>Alt 1<br/>RLC + MAC-hs<br/>(Rel-5 and later<br/>releases)<br/>NOTE2</b> | <b>Alt 2<br/>RLC + MAC-ehs<br/>(Rel-7 and later<br/>releases)<br/>NOTE2</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Higher Layer                                                                                                                                                                                  | RAB/Signalling RB                 | RAB                                                                        |                                                                             |
| PDPCP                                                                                                                                                                                         | Header size, bit                  | 8                                                                          |                                                                             |
| RLC                                                                                                                                                                                           | Logical channel type              | DTCH                                                                       |                                                                             |
|                                                                                                                                                                                               | RLC mode                          | UM                                                                         |                                                                             |
|                                                                                                                                                                                               | Payload sizes, bit                | 48, 144, 192, 264                                                          | 48, 144, 192, 264                                                           |
|                                                                                                                                                                                               | Max data rate, bps                | depends on UE category<br>NOTE1                                            |                                                                             |
|                                                                                                                                                                                               | UMD PDU header, bit               | 8                                                                          | 8                                                                           |
| MAC                                                                                                                                                                                           | MAC-d header, bit                 | 0                                                                          | 0                                                                           |
|                                                                                                                                                                                               | MAC multiplexing                  | N/A                                                                        | N/A                                                                         |
|                                                                                                                                                                                               | MAC-d PDU size, bit               | 56, 152, 200, 272                                                          | 56, 152, 200, 272                                                           |
|                                                                                                                                                                                               | MAC-hs Type                       | MAC-hs                                                                     | MAC-ehs                                                                     |
|                                                                                                                                                                                               | MAC-hs/ehs header fixed part, bit | 21                                                                         | 24                                                                          |
| Layer 1                                                                                                                                                                                       | TrCH type                         | HS-DSCH                                                                    | HS-DSCH                                                                     |
|                                                                                                                                                                                               | TTI                               | 2 ms                                                                       | 2 ms                                                                        |
|                                                                                                                                                                                               | Coding type                       | TC                                                                         | TC                                                                          |
|                                                                                                                                                                                               | CRC, bit                          | 24                                                                         | 24                                                                          |
|                                                                                                                                                                                               | Applicable modulation schemes     | QPSK,<br>16QAM                                                             | QPSK,<br>16QAM, 64QAM                                                       |
|                                                                                                                                                                                               | Applicable with MIMO              | No                                                                         | Yes                                                                         |
|                                                                                                                                                                                               | Applicable with Dual-Cell HSDPA   | No                                                                         | Yes                                                                         |
| NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see [25.321]).                                          |                                   |                                                                            |                                                                             |
| NOTE2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternative 2 (Fixed RLC + MAC-ehs) then this shall be explicitly stated in the test case. |                                   |                                                                            |                                                                             |

## 6.10.2.4.6.10.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2.

## 6.10.2.4.6.10.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

## 6.10.2.4.6.10.2.2.1 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

## 6.10.2.4.7 Combinations on PRACH and HS-DSCH

6.10.2.4.7.1 Interactive/Background / UL:32 DL: [max bit rate depending on UE category] with fixed or flexible RLC and MAC-ehs / PS RAB + SRBs for CCCH + DCCH on RACH and SRB with fixed RLC and MAC-ehs on HS-DSCH / DL:QPSK

6.10.2.4.7.1.1 Uplink

6.10.2.4.7.1.1.1 Transport channel parameters

6.10.2.4.7.1.1.1.1 Transport channel for Interactive/Background / UL: 32 kbps / PS RAB + SRBs for CCCH + DCCH

See clause 6.10.2.4.4.1.1.1

6.10.2.4.7.1.1.1.2 TFCS

See clause 6.10.2.4.4.1.1.2

6.10.2.4.7.1.1.2 Physical channel parameters

See clause 6.10.2.4.4.1.2

6.10.2.4.7.1.1.3 Downlink

6.10.2.4.7.1.1.3.1 Transport channel parameters

6.10.2.4.7.1.1.3.2 Transport channel parameters for HS-DSCH

6.10.2.4.7.1.1.3.2.1 MAC-ehs queue id#0 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

|              |                                | <b>Fixed RLC + MAC-ehs<br/>(Rel-7 and later releases)</b> |                  |
|--------------|--------------------------------|-----------------------------------------------------------|------------------|
| Higher layer | RAB/Signalling RB              | SRB#0                                                     | SRB#1            |
| RLC          | Logical channel type           | CCCH                                                      | DCCH             |
|              | RLC mode                       | UM                                                        | UM               |
|              | Payload sizes, bit             | 136                                                       | 136              |
|              | Max data rate, bps             | Depends on UE Category (NOTE1)                            |                  |
|              | UMD PDU header, bit            | 8                                                         | 8                |
| MAC          | MAC-d header, bit              | 0                                                         |                  |
|              | MAC multiplexing               | N/A                                                       |                  |
|              | MAC-d PDU size, bit            | 144 (Note 2)                                              |                  |
|              | MAC-c header, bit              | 0                                                         | 0 or 32 (Note 3) |
|              | MAC-hs Type                    | MAC-ehs                                                   |                  |
|              | MAC-ehs header fixed part, bit | 24                                                        |                  |
| Layer 1      | TrCH type                      | HS-DSCH                                                   |                  |
|              | TTI                            | 2 ms                                                      |                  |
|              | Coding type                    | TC                                                        |                  |
|              | CRC, bit                       | 24                                                        |                  |
|              | Applicable modulation schemes  | QPSK, 16QAM                                               |                  |

NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-ehs PDU (see 3GPP TS 25.321 [38]).

NOTE 2: MAC-d PDU size is equal to RLC PDU size as there is no MAC-d header. Therefore RLC PDU size is commonly used and referenced in 3GPP TS 25.331 [34].

NOTE 3: MAC-c header can be either 0 or 32 bits (U-RNTI = 32 bits) for SRB1. The U-RNTI is only included as MAC-c header to MAC-d PDU for DCCH (SRB#1 only) when common H-RNTI is used (see 3GPP TS 25.321 [38]).

6.10.2.4.7.1.1.3.2.2 MAC-ehs queue id#1 parameters for DL: [max bit rate depending on UE category]  
SRBs for HS-DSCH

|                                                                                                                                                             |                                | Fixed RLC + MAC-ehs<br>(Rel-7 and later releases) |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------|-------|-------|
| Higher layer                                                                                                                                                | RAB/Signalling RB              | SRB#2                                             | SRB#3 | SRB#4 |
| RLC                                                                                                                                                         | Logical channel type           | DCCH                                              | DCCH  | DCCH  |
|                                                                                                                                                             | RLC mode                       | AM                                                | AM    | AM    |
|                                                                                                                                                             | Payload sizes, bit             | 128                                               | 128   | 128   |
|                                                                                                                                                             | Max data rate, bps             | Depends on UE Category (NOTE1)                    |       |       |
|                                                                                                                                                             | AMD PDU header, bit            | 16                                                | 16    | 16    |
| MAC                                                                                                                                                         | MAC-d header, bit              | 0                                                 |       |       |
|                                                                                                                                                             | MAC multiplexing               | N/A                                               |       |       |
|                                                                                                                                                             | MAC-d PDU size, bit            | 144 (Note 2)                                      |       |       |
|                                                                                                                                                             | MAC-hs Type                    | MAC-ehs                                           |       |       |
|                                                                                                                                                             | MAC-ehs header fixed part, bit | 24                                                |       |       |
| Layer 1                                                                                                                                                     | TrCH type                      | HS-DSCH                                           |       |       |
|                                                                                                                                                             | TTI                            | 2ms                                               |       |       |
|                                                                                                                                                             | Coding type                    | TC                                                |       |       |
|                                                                                                                                                             | CRC, bit                       | 24                                                |       |       |
|                                                                                                                                                             | Applicable modulation schemes  | QPSK, 16QAM                                       |       |       |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-ehs PDU (see 3GPP TS 25.321 [38]).      |                                |                                                   |       |       |
| NOTE 2: MAC-d PDU size is equal to RLC PDU size as there is no MAC-d header. Therefore RLC PDU size is commonly used and referenced in 3GPP TS 25.331 [34]. |                                |                                                   |       |       |

6.10.2.4.7.1.1.3.2.3 MAC-ehs queue id#2 parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                | Alt 1<br>Fixed RLC + MAC-ehs<br>(Rel-7 and later releases)<br>NOTE 4 | Alt 2<br>Flexible RLC + MAC-ehs<br>(Rel-7 and later releases)<br>NOTE 4 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------|
| Higher layer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RAB/Signalling RB              | RAB                                                                  | RAB                                                                     |
| RLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Logical channel type           | DTCH                                                                 | DTCH                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RLC mode                       | AM                                                                   | AM                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Payload sizes, bit             | 320                                                                  | Flexible up to 12000<br>(Note 2)                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Max data rate, bps             | depends on UE category<br>(NOTE 1)                                   | depends on UE category<br>(NOTE 1)                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | AMD PDU header, bit            | 16                                                                   | 16                                                                      |
| MAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MAC-d header, bit              | 0                                                                    | 0                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAC multiplexing               | N/A                                                                  | N/A                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAC-d PDU size, bit            | 336                                                                  | Flexible (Note 3)                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAC-hs Type                    | MAC-ehs                                                              | MAC-ehs                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MAC-ehs header fixed part, bit | 24                                                                   | 24                                                                      |
| Layer 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TrCH type                      | HS-DSCH                                                              | HS-DSCH                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TTI                            | 2 ms                                                                 | 2 ms                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Coding type                    | TC                                                                   | TC                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRC, bit                       | 24                                                                   | 24                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Applicable modulation schemes  | QPSK, 16QAM                                                          | QPSK, 16QAM                                                             |
| <p>NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-ehs PDU (see 3GPP TS 25.321 [38]).</p> <p>NOTE 2: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits.</p> <p>NOTE 3: MAC-d PDU size is equal to RLC PDU size as there is no MAC-d header. Therefore RLC PDU size is commonly used and referenced in 3GPP TS 25.331 [34].</p> <p>NOTE 4: Alternative 1 with Fixed RLC is the default configuration. For test cases that use alternative 2 (Flexible RLC) then this shall be explicitly stated in the test case.</p> |                                |                                                                      |                                                                         |

#### 6.10.2.4.7.1.1.3.2.4 Transport channel parameters of SRB for PCCH

See clause 6.10.2.4.3.1.1.

#### 6.10.2.4.7.1.1.3.6 Transport channel parameters of SRB for BCCH

|              |                                |                        |
|--------------|--------------------------------|------------------------|
| Higher layer | RAB/signalling RB              | SRB                    |
|              | User of Radio Bearer           | RRC                    |
| RLC          | Logical channel type           | BCCH                   |
|              | RLC mode                       | TM                     |
|              | Payload sizes, bit             | 144                    |
|              | Max data rate, bps             | Depends on UE category |
|              | TrD PDU header, bit            | 0                      |
| MAC          | MAC header, bit                | 0                      |
|              | MAC multiplexing               | N/A                    |
|              | MAC-d PDU size, bits           | 144 (Note 1)           |
|              | MAC-hs Type                    | MAC-ehs                |
|              | MAC-ehs header fixed part, bit | 24                     |
| Layer 1      | TrCH type                      | HS-DSCH                |
|              | TTI, ms                        | 2ms                    |
|              | Coding type                    | TC                     |
|              | CRC, bit                       | 24                     |
|              | Applicable modulation scheme   | QPSK                   |

NOTE 1: MAC-d PDU size is equal to RLC PDU size as there is no MAC-d header. Therefore RLC PDU size is commonly used and referenced in 3GPP TS 25.331 [34]

#### 6.10.2.4.7.1.1.4 Physical channel parameters

#### 6.10.2.4.7.1.1.4.1 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

### 6.10.3 RAB and signalling RB for TDD

#### 6.10.3.1 RABs and signalling RBs

In the following clauses, the typical parameter sets are presented for reference RABs, signalling RBs and important combinations of them. The data rate given for each RAB is the maximum data rate that can be supported by that RAB.

NOTE: The granularity for each RAB needs to be clarified.

**Table 6.10.3.1.1: Prioritized RABs**

| #   | Traffic class <sup>[3]</sup> | SSD <sup>[3]</sup> | Max. rate, kbps                                     | CS/PS |
|-----|------------------------------|--------------------|-----------------------------------------------------|-------|
| 1   | Conversational               | Speech             | UL:12.2 DL:12.2                                     | CS    |
| 1a  | Conversational               | Speech             | UL: (12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75)    | CS    |
| 2   | Conversational               | Speech             | UL:10.2 DL:10.2                                     | CS    |
| 2a  | Conversational               | Speech             | UL:(10.2 , 6.7, 5.9, 4.75) DL:10.2, 6.7, 5.9, 4.75) | CS    |
| 3   | Conversational               | Speech             | UL:7.95 DL:7.95                                     | CS    |
| 4   | Conversational               | Speech             | UL:7.4 DL:7.4                                       | CS    |
| 4a  | Conversational               | Speech             | UL:(12.2 7.95 5.9 4.75, DL:(12.2 7.95 5.9 4.75)     | CS    |
| 5   | Conversational               | Speech             | UL:6.7 DL:6.7                                       | CS    |
| 6   | Conversational               | Speech             | UL:5.9 DL:5.9                                       | CS    |
| 7   | Conversational               | Speech             | UL:5.15 DL:5.15                                     | CS    |
| 8   | Conversational               | Speech             | UL:4.75 DL:4.75                                     | CS    |
| 9   | Conversational               | Unknown            | UL:28.8 DL:28.8                                     | CS    |
| 10  | Conversational               | Unknown            | UL:64 DL:64                                         | CS    |
| 11  | Conversational               | Unknown            | UL:32 DL:32                                         | CS    |
| 11a | Conversational               | Unknown            | UL:8 DL:8                                           | CS    |
| 12  | Streaming                    | Unknown            | UL:14.4 DL:14.4                                     | CS    |
| 13  | Streaming                    | Unknown            | UL:28.8 DL:28.8                                     | CS    |
| 14  | Streaming                    | Unknown            | UL:57.6 DL:57.6                                     | CS    |
| 15  | Void                         |                    |                                                     |       |
| 15a | Streaming                    | Unknown            | UL:16 DL:64                                         | PS    |
| 16  | Void                         |                    |                                                     |       |
| 17  | Void                         |                    |                                                     |       |
| 18  | Void                         |                    |                                                     |       |
| 19  | Void                         |                    |                                                     |       |
| 20  | Interactive or Background    | N/A                | UL:32 DL:8                                          | PS    |
| 20a | Interactive or Background    | N/A                | UL:8 DL:8                                           | PS    |
| 20b | Interactive or Background    | N/A                | UL:16 DL:16                                         | PS    |
| 20c | Interactive or Background    | N/A                | UL:32 DL:32                                         | PS    |
| 21  | Void                         |                    |                                                     |       |
| 22  | Interactive or Background    | N/A                | UL:32 DL:64                                         | PS    |
| 23  | Interactive or Background    | N/A                | UL:64 DL:64                                         | PS    |
| 24  | Interactive or Background    | N/A                | UL:64 DL:128                                        | PS    |
| 25  | Interactive or Background    | N/A                | UL:128 DL:128                                       | PS    |
| 26  | Interactive or Background    | N/A                | UL:64 DL:384                                        | PS    |
| 27  | Interactive or Background    | N/A                | UL:128 DL:384                                       | PS    |
| 28  | Interactive or Background    | N/A                | UL:384 DL:384                                       | PS    |
| 29  | Interactive or Background    | N/A                | UL:64 DL:2048                                       | PS    |
| 30  | Interactive or Background    | N/A                | UL:128 DL:2048                                      | PS    |
| 31  | Void                         |                    |                                                     |       |
| 32  | Interactive or Background    | N/A                | UL:64 DL:256                                        | PS    |
| 33  | Interactive or Background    | N/A                | UL:0 DL:32                                          | PS    |
| 34  | Interactive or Background    | N/A                | UL:32 DL:0                                          | PS    |
| 35  | Interactive or Background    | N/A                | UL:64 DL:144                                        | PS    |
| 36  | Interactive or Background    | N/A                | UL:144 DL:144                                       | PS    |

**Table 6.10.3.1.2: Signalling RBs**

| #  | Maximum rate, kbps  | Logical channel | PhyCh onto which SRBs are mapped |
|----|---------------------|-----------------|----------------------------------|
| 1  | UL:1.7 DL:1.7       | DCCH            | DPCH                             |
| 2  | UL:3.4 DL:3.4       | DCCH            | DPCH                             |
| 3  | UL:13.6 DL:13.6     | DCCH            | DPCH                             |
| 4  | DL:27.2 (alt. 13.6) | DCCH            | SCCPCH                           |
| 5  | UL:16.8             | CCCH            | PRACH                            |
| 6  | DL:32 (alt. 16)     | CCCH            | SCCPCH                           |
| 7  | DL:33.6 (alt. 16.8) | BCCH            | SCCPCH                           |
| 8  | DL:12 (alt. 8)      | PCCH            | SCCPCH                           |
| 9  | UL:16.8             | SHCCH           | PRACH                            |
| 10 | UL:16.8             | SHCCH           | PRACH or PUSCH                   |
| 11 | DL:32 (alt. 16)     | SHCCH           | SCCPCH                           |
| 12 | DL:16               | SHCCH           | SCCPCH or PDSCH                  |

### 6.10.3.2 Combinations of RABs and Signalling RBs

In the present document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

NOTE: It is understood that for speech service the AMR mode may be operated asymmetrically for the uplink and downlink.

#### Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 1a) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe).
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB  
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.

- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB  
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Void.
- 19) Void.
- 20) Void.
- 21) Void.
- 22) Void..
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 24) Void..
- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 31) Interactive or background / UL:64 DL:256 kbps / PS RAB  
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB  
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35) Interactive or background / UL:64 DL:2 048 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Interactive or background / UL:128 DL:2 048 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 37) Interactive or background / UL:384 DL:2 048 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:32 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38a) Conversational / speech / 12.2 kbps / CS RAB  
+ Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38b) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background/ UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38c) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background/ UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38d) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background/ UL:64 DL:64 kbps / PS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38e) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:0 DL:0 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38f) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38g) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38h) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38i) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38j) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 39) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:32 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.



- 41) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:256 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:384 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:128 DL:2 048 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Void
- 47) Void
- 48) Void
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or Background / UL:16 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:128 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Void.
- 55) Void
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH

- 57) Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 58) Streaming / unknown / UL:16 DL:64 kbps / PS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 59) Reserved for future use
- 60) Reserved for future use
- 61) Conversational / unknown / UL:8 DL:8 kbps / PS RAB  
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH

#### Combinations on PDSCH, SCCPCH, PUSCH and PRACH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB  
+ UL: 3.4/16.8 DL:3.4/ 33.6 kbps SRBs for DCCH, CCCH and BCCH  
+ UL:16.8 DL: 16 kbps SRBs for SHCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB  
+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH  
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 3) Interactive or background / UL:64 DL:2 048 kbps / PS RAB  
+ UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH  
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 4) Interactive or background / UL:384 DL:2 048 kbps / PS RAB  
+ UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH  
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.

#### Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

- 1) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH  
+ Interactive or background / UL:64 DL:256 kbps / PS RAB  
+ UL:16.8 kbps SRBs for CCCH and SHCCH  
+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 2) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH  
+ Interactive or background / UL:64 DL:384 kbps / PS RAB  
+ UL:16.8 kbps SRBs for CCCH and SHCCH  
+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH  
+ Interactive or background / UL:64 DL:2 048 kbps / PS RAB  
+ UL:16.8 kbps SRBs for CCCH and SHCCH  
+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

#### Combinations on SCCPCH

- 1) Stand-alone 12 kbps SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB  
+ SRB for CCCH  
+ SRBs for DCCH  
+ SRB for BCCH.
- 2a) Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB  
+ SRBs for CCCH

- + SRB for DCCH
- + SRB for BCCH
- 2b) SRBs for CCCH
  - + SRB for DCCH
  - + SRB for BCCH
- 3) Interactive or background / DL:32 kbps / PS RAB
  - + SRB for PCCH
  - + SRB for CCCH
  - + SRBs for DCCH
  - + SRB for BCCH.
- 3a) SRB for PCCH
  - + SRB for CCCH
  - + SRB for DCCH
  - + SRB for BCCH
- 4) RB for CTCH
  - + SRB for CCCH
  - + SRB for BCCH

#### Combinations on PRACH

- 1) Interactive or background / UL:12.8 kbps / PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH.

#### Combinations on DPCH and HS-PDSCH

- 1) Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 2) Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 3) Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 5) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 6) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 7) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 8) Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 9) Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 10) Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 11) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

### 6.10.3.3 Example of linkage between RABs and services

RABs, which are included in the present document, can provide the services as shown in table 6.10.1.1: Traffic classes. Furthermore, the required BER for each RAB, which is assumed in the present document, is shown in table 6.10.3.3.1.

**Table 6.10.3.3.1: Example of linkage between RABs and services**

| Traffic class <sup>[3]</sup> | RAB                |                              |       | Residual BER <sup>[3]</sup>                                        | Services                                                     |
|------------------------------|--------------------|------------------------------|-------|--------------------------------------------------------------------|--------------------------------------------------------------|
|                              | SSD <sup>[3]</sup> | Max. rate, kbps              | CS/PS |                                                                    |                                                              |
| Conversational               | Speech             | UL:4.75-12.2<br>DL:4.75-12.2 | CS    | $5 \times 10^{-4}$ ,<br>$1 \times 10^{-3}$ ,<br>$5 \times 10^{-3}$ | AMR speech                                                   |
| Conversational               | Unknown            | UL:64 DL:64                  | CS    | $1 \times 10^{-4}$ or<br>$1 \times 10^{-6}$                        | UDI 1B, 64k 3G-324M <sup>[4]</sup>                           |
| Conversational               | Unknown            | UL:32 DL:32                  | CS    | $1 \times 10^{-4}$ or<br>$1 \times 10^{-6}$                        | 32k 3G-324M <sup>[4]</sup>                                   |
| Conversational               | Unknown            | UL:28.8 DL:28.8              | CS    | $1 \times 10^{-3}$                                                 | Transparent modem                                            |
| Streaming                    | Unknown            | UL:14.4 DL:14.4              | CS    | $1 \times 10^{-3}$                                                 | FAX <sup>[6]</sup>                                           |
| Streaming                    | Unknown            | UL:28.8 DL:28.8              | CS    | $1 \times 10^{-3}$                                                 | FAX <sup>[6]</sup><br>PIAFS 32 kbps                          |
| Streaming                    | Unknown            | UL:57.6 DL:57.6              | CS    | $1 \times 10^{-3}$                                                 | Modem <sup>[6]</sup> , FTM <sup>[5]</sup> ,<br>PIAFS 64 kbps |
| Streaming                    | Unknown            | UL:64-128 or<br>DL:64-384    | CS    | $1 \times 10^{-3}$ or<br>$1 \times 10^{-4}$                        | Streaming video, uni-directional                             |
| Interactive or Background    | N/A                | UL:32-384<br>DL:8-2048       | PS    | $1 \times 10^{-3}$ or<br>$1 \times 10^{-4}$                        | Packet                                                       |

NOTE 1: SMS can be provided via the signalling RB (DCCH) on DPCH or SCCPCH.

NOTE 2: CBS can be provided via the signalling RB (CTCH) on SCCPCH

NOTE 3: UDI  $n$ B can be provided via  $n$  RABs of conversational 64 kbps.

### 6.10.3.4 Typical radio parameter sets

NOTE The order of tables and MAC-d flow numbering in this section may be different than the RB IDs and MAC-d flow IDs as defined in default messages in section 9.

#### 6.10.3.4.1 Combinations on DPCH

##### 6.10.3.4.1.1 Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH

##### 6.10.3.4.1.1.1 Uplink

##### 6.10.3.4.1.1.1.1 Transport channel parameters

##### 6.10.3.4.1.1.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

| Higher layer | RAB/signalling RB       |           | SRB#1                          | SRB#2 | SRB#3                   | SRB#4                  |
|--------------|-------------------------|-----------|--------------------------------|-------|-------------------------|------------------------|
|              | User of Radio Bearer    |           | RRC                            | RRC   | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC          | Logical channel type    |           | DCCH                           | DCCH  | DCCH                    | DCCH                   |
|              | RLC mode                |           | UM                             | AM    | AM                      | AM                     |
|              | Payload sizes, bit      |           | 136                            | 128   | 128                     | 128                    |
|              | Max data rate, bps      |           | 1 700                          | 1 600 | 1 600                   | 1 600                  |
|              | AMD/UMD PDU header, bit |           | 8                              | 16    | 16                      | 16                     |
| MAC          | MAC header, bit         |           | 4                              | 4     | 4                       | 4                      |
|              | MAC multiplexing        |           | 4 logical channel multiplexing |       |                         |                        |
| Layer 1      | TrCH type               |           | DCH                            |       |                         |                        |
|              | TB sizes, bit           |           | 148 (alt. 0,148) (note)        |       |                         |                        |
|              | TFS                     | TF0, bits | 0x148 (alt 1x0) (note)         |       |                         |                        |
|              |                         | TF1, bits | 1x148                          |       |                         |                        |
|              | TTI, ms                 |           | 80                             |       |                         |                        |
|              | Coding type             |           | CC 1/3                         |       |                         |                        |

|                                                                                            |                                                     |            |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|
|                                                                                            | CRC, bit                                            | 16         |
|                                                                                            | Max number of bits/TTI before rate matching         | 516        |
|                                                                                            | Max number of bits/radio frame before rate matching | 65         |
|                                                                                            | RM attribute                                        | 155 to 185 |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UTRAN. |                                                     |            |

## 6.10.3.4.1.1.1.2 TFCS

|                                                                        |                              |
|------------------------------------------------------------------------|------------------------------|
| TFCS size                                                              | 2                            |
| TFCS                                                                   | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. |                              |

## 6.10.3.4.1.1.1.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 512 chips                   |
|                                                                                               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 234                         |
|                                                                                               | TFCl code word                       | 8 bits                      |
|                                                                                               | TPC                                  | 2 bits                      |
|                                                                                               | Puncturing Limit                     | 1                           |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bits. |                                      |                             |

## 6.10.3.4.1.1.2 Downlink

## 6.10.3.4.1.1.2.1 Transport channel parameters

## 6.10.3.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

|                                                                                         |                                                     |           |                                |       |                         |                        |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|--------------------------------|-------|-------------------------|------------------------|
| Higher layer                                                                            | RAB/signalling RB                                   |           | SRB#1                          | SRB#2 | SRB#3                   | SRB#4                  |
|                                                                                         | User of Radio Bearer                                |           | RRC                            | RRC   | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC                                                                                     | Logical channel type                                |           | DCCH                           | DCCH  | DCCH                    | DCCH                   |
|                                                                                         | RLC mode                                            |           | UM                             | AM    | AM                      | AM                     |
|                                                                                         | Payload sizes, bit                                  |           | 136                            | 128   | 128                     | 128                    |
|                                                                                         | Max data rate, bps                                  |           | 1 700                          | 1 600 | 1 600                   | 1 600                  |
|                                                                                         | AMD/UMD PDU header, bit                             |           | 8                              | 16    | 16                      | 16                     |
| MAC                                                                                     | MAC header, bit                                     |           | 4                              | 4     | 4                       | 4                      |
|                                                                                         | MAC multiplexing                                    |           | 4 logical channel multiplexing |       |                         |                        |
| Layer 1                                                                                 | TrCH type                                           |           | DCH                            |       |                         |                        |
|                                                                                         | TB sizes, bit                                       |           | 148 (alt. 0,148) (note)        |       |                         |                        |
|                                                                                         | TFS                                                 | TF0, bits | 0 x148 (alt. 1x0) (note)       |       |                         |                        |
|                                                                                         |                                                     | TF1, bits | 1x148                          |       |                         |                        |
|                                                                                         | TTI, ms                                             |           | 80                             |       |                         |                        |
|                                                                                         | Coding type                                         |           | CC 1/3                         |       |                         |                        |
|                                                                                         | CRC, bit                                            |           | 16                             |       |                         |                        |
|                                                                                         | Max number of bits/TTI before rate matching         |           | 516                            |       |                         |                        |
|                                                                                         | Max number of bits/radio frame before rate matching |           | 65                             |       |                         |                        |
|                                                                                         | RM attribute                                        |           | 155 to 185                     |       |                         |                        |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. |                                                     |           |                                |       |                         |                        |

## 6.10.3.4.1.1.2.1.2 TFCS

|                                                                        |                              |
|------------------------------------------------------------------------|------------------------------|
| TFCS size                                                              | 2                            |
| TFCS                                                                   | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. |                              |

## 6.10.3.4.1.1.2.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 512 chips                   |
|                                                                                               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 236 bits                    |
|                                                                                               | TFCl code word                       | 8 bits                      |
|                                                                                               | Puncturing limit                     | 1                           |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bits. |                                      |                             |

6.10.3.4.1.1a Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe)

6.10.3.4.1.1a.1 Uplink

6.10.3.4.1.1a.1.1 Transport channel parameters

6.10.3.4.1.1a.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

|              |                                                     |           |                                |       |                         |                        |
|--------------|-----------------------------------------------------|-----------|--------------------------------|-------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB                                   |           | SRB#1                          | SRB#2 | SRB#3                   | SRB#4                  |
|              | User of Radio Bearer                                |           | RRC                            | RRC   | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC          | Logical channel type                                |           | DCCH                           | DCCH  | DCCH                    | DCCH                   |
|              | RLC mode                                            |           | UM                             | AM    | AM                      | AM                     |
|              | Payload sizes, bit                                  |           | 136                            | 128   | 128                     | 128                    |
|              | Max data rate, bps                                  |           | 1 700                          | 1 600 | 1 600                   | 1 600                  |
|              | AMD/UMD PDU header, bit                             |           | 8                              | 16    | 16                      | 16                     |
| MAC          | MAC header, bit                                     |           | 4                              | 4     | 4                       | 4                      |
|              | MAC multiplexing                                    |           | 4 logical channel multiplexing |       |                         |                        |
| Layer 1      | TrCH type                                           |           | DCH                            |       |                         |                        |
|              | TB sizes, bit                                       |           | 148                            |       |                         |                        |
|              | TFS                                                 | TF0, bits | 0x148                          |       |                         |                        |
|              |                                                     | TF1, bits | 1x148                          |       |                         |                        |
|              | TTI, ms                                             |           | 20                             |       |                         |                        |
|              | Coding type                                         |           | CC 1/3                         |       |                         |                        |
|              | CRC, bit                                            |           | 16                             |       |                         |                        |
|              | Max number of bits/TTI before rate matching         |           | 516                            |       |                         |                        |
|              | Max number of bits/radio frame before rate matching |           | 258                            |       |                         |                        |

6.10.3.4.1.1a.1.1.2 TFCS

|           |                              |
|-----------|------------------------------|
| TFCS size | 2                            |
| TFCS      | SRBs for DCCH = (TF0), (TF1) |

6.10.3.4.1.1a.1.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 256 chips                   |
|                                                                                               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 266                         |
|                                                                                               | TFCl code word                       | 8 bits                      |
|                                                                                               | TPC                                  | 2 bits                      |
|                                                                                               | Puncturing Limit                     | 1                           |
|                                                                                               | Repetition period                    | 8                           |
|                                                                                               | Repetition length                    | 2                           |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bits. |                                      |                             |

6.10.3.4.1.1a.2 Downlink

6.10.3.4.1.1a.2.1 Transport channel parameters

6.10.3.4.1.1a.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

|              |                      |       |       |                         |                        |
|--------------|----------------------|-------|-------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB    | SRB#1 | SRB#2 | SRB#3                   | SRB#4                  |
|              | User of Radio Bearer | RRC   | RRC   | NAS_DT<br>High priority | NAS_DT<br>Low priority |

|         |                                                     |           |                                |       |       |       |
|---------|-----------------------------------------------------|-----------|--------------------------------|-------|-------|-------|
| RLC     | Logical channel type                                |           | DCCH                           | DCCH  | DCCH  | DCCH  |
|         | RLC mode                                            |           | UM                             | AM    | AM    | AM    |
|         | Payload sizes, bit                                  |           | 136                            | 128   | 128   | 128   |
|         | Max data rate, bps                                  |           | 1 700                          | 1 600 | 1 600 | 1 600 |
|         | AMD/UMD PDU header, bit                             |           | 8                              | 16    | 16    | 16    |
| MAC     | MAC header, bit                                     |           | 4                              | 4     | 4     | 4     |
|         | MAC multiplexing                                    |           | 4 logical channel multiplexing |       |       |       |
| Layer 1 | TrCH type                                           |           | DCH                            |       |       |       |
|         | TB sizes, bit                                       |           | 148                            |       |       |       |
|         | TFS                                                 | TF0, bits | 0 x148                         |       |       |       |
|         |                                                     | TF1, bits | 1x148                          |       |       |       |
|         | TTI, ms                                             |           | 20                             |       |       |       |
|         | Coding type                                         |           | CC 1/3                         |       |       |       |
|         | CRC, bit                                            |           | 16                             |       |       |       |
|         | Max number of bits/TTI before rate matching         |           | 516                            |       |       |       |
|         | Max number of bits/radio frame before rate matching |           | 258                            |       |       |       |

## 6.10.3.4.1a.2.1.2 TFCS

|                                  |                              |
|----------------------------------|------------------------------|
| TFCS size                        | 2                            |
| TFCS                             | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is optional. |                              |

## 6.10.3.4.1a.2.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 256 chips                   |
|                                                                                               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 268 bits                    |
|                                                                                               | TFCl code word                       | 8 bits                      |
|                                                                                               | Puncturing limit                     | 1                           |
|                                                                                               | Repetition period                    | 8                           |
|                                                                                               | Repetition length                    | 2                           |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bits. |                                      |                             |

## 6.10.3.4.1.2 Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.2.1 Uplink

## 6.10.3.4.1.2.1.1 Transport channel parameters

## 6.10.3.4.1.2.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

|              |                                             |           |                                |       |                         |                        |
|--------------|---------------------------------------------|-----------|--------------------------------|-------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB                           |           | SRB#1                          | SRB#2 | SRB#3                   | SRB#4                  |
|              | User of Radio Bearer                        |           | RRC                            | RRC   | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC          | Logical channel type                        |           | DCCH                           | DCCH  | DCCH                    | DCCH                   |
|              | RLC mode                                    |           | UM                             | AM    | AM                      | AM                     |
|              | Payload sizes, bit                          |           | 136                            | 128   | 128                     | 128                    |
|              | Max data rate, bps                          |           | 3 400                          | 3 200 | 3 200                   | 3 200                  |
|              | AMD/UMD PDU header, bit                     |           | 8                              | 16    | 16                      | 16                     |
| MAC          | MAC header, bit                             |           | 4                              | 4     | 4                       | 4                      |
|              | MAC multiplexing                            |           | 4 logical channel multiplexing |       |                         |                        |
| Layer 1      | TrCH type                                   |           | DCH                            |       |                         |                        |
|              | TB sizes, bit                               |           | 148 (alt. 0,148) (note)        |       |                         |                        |
|              | TFS                                         | TF0, bits | 0x148 (alt. 1x0) (note)        |       |                         |                        |
|              |                                             | TF1, bits | 1x148                          |       |                         |                        |
|              | TTI, ms                                     |           | 40                             |       |                         |                        |
|              | Coding type                                 |           | CC 1/3                         |       |                         |                        |
|              | CRC, bit                                    |           | 16                             |       |                         |                        |
|              | Max number of bits/TTI before rate matching |           | 516                            |       |                         |                        |

|                                                                                            |                                                     |            |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|
|                                                                                            | Max number of bits/radio frame before rate matching | 129        |
|                                                                                            | RM attribute                                        | 155 to 165 |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UTRAN. |                                                     |            |

## 6.10.3.4.1.2.1.1.2 TFCS

|                                                                        |                              |
|------------------------------------------------------------------------|------------------------------|
| TFCS size                                                              | 2                            |
| TFCS                                                                   | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. |                              |

## 6.10.3.4.1.2.1.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 512 chips                   |
|                                                                                               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 234 bits                    |
|                                                                                               | TFCl code word                       | 8 bits                      |
|                                                                                               | TPC                                  | 2 bit                       |
|                                                                                               | Puncturing Limit                     | 1                           |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bits. |                                      |                             |

## 6.10.3.4.1.2.2 Downlink

## 6.10.3.4.1.2.2.1 Transport channel parameters

## 6.10.3.4.1.2.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

|                                                                                         |                                                     |           |                                |       |                         |                        |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|--------------------------------|-------|-------------------------|------------------------|
| Higher layer                                                                            | RAB/signalling RB                                   |           | SRB#1                          | SRB#2 | SRB#3                   | SRB#4                  |
|                                                                                         | User of Radio Bearer                                |           | RRC                            | RRC   | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC                                                                                     | Logical channel type                                |           | DCCH                           | DCCH  | DCCH                    | DCCH                   |
|                                                                                         | RLC mode                                            |           | UM                             | AM    | AM                      | AM                     |
|                                                                                         | Payload sizes, bit                                  |           | 136                            | 128   | 128                     | 128                    |
|                                                                                         | Max data rate, bps                                  |           | 3 400                          | 3 200 | 3 200                   | 3 200                  |
|                                                                                         | AMD/UMD PDU header, bit                             |           | 8                              | 16    | 16                      | 16                     |
| MAC                                                                                     | MAC header, bit                                     |           | 4                              | 4     | 4                       | 4                      |
|                                                                                         | MAC multiplexing                                    |           | 4 logical channel multiplexing |       |                         |                        |
| Layer 1                                                                                 | TrCH type                                           |           | DCH                            |       |                         |                        |
|                                                                                         | TB sizes, bit                                       |           | 148 (alt. 0, 148) (note)       |       |                         |                        |
|                                                                                         | TFS                                                 | TF0, bits | 0x148 (alt. 1x0) (note)        |       |                         |                        |
|                                                                                         |                                                     | TF1, bits | 1x148                          |       |                         |                        |
|                                                                                         | TTI, ms                                             |           | 40                             |       |                         |                        |
|                                                                                         | Coding type                                         |           | CC 1/3                         |       |                         |                        |
|                                                                                         | CRC, bit                                            |           | 16                             |       |                         |                        |
|                                                                                         | Max number of bits/TTI before rate matching         |           | 516                            |       |                         |                        |
|                                                                                         | Max number of bits/radio frame before rate matching |           | 129                            |       |                         |                        |
|                                                                                         | RM attribute                                        |           | 155 to 165                     |       |                         |                        |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. |                                                     |           |                                |       |                         |                        |

## 6.10.3.4.1.2.2.1.2 TFCS

|                                                                        |                              |
|------------------------------------------------------------------------|------------------------------|
| TFCS size                                                              | 2                            |
| TFCS                                                                   | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. |                              |

## 6.10.3.4.1.2.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                   |
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 236                         |



|                                                                                               |                  |        |
|-----------------------------------------------------------------------------------------------|------------------|--------|
|                                                                                               | TFCl code word   | 8 bits |
|                                                                                               | Puncturing limit | 1      |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bits. |                  |        |

6.10.3.4.1.3 Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH

6.10.3.4.1.3.1 Uplink

6.10.3.4.1.3.1.1 Transport channel parameters

6.10.3.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

|              |                                                     |                                |        |                         |                        |
|--------------|-----------------------------------------------------|--------------------------------|--------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB                                   | SRB#1                          | SRB#2  | SRB#3                   | SRB#4                  |
|              | User of Radio Bearer                                | RRC                            | RRC    | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC          | Logical channel type                                | DCCH                           | DCCH   | DCCH                    | DCCH                   |
|              | RLC mode                                            | UM                             | AM     | AM                      | AM                     |
|              | Payload sizes, bit                                  | 136                            | 128    | 128                     | 128                    |
|              | Max data rate, bps                                  | 13 600                         | 12 800 | 12 800                  | 12 800                 |
|              | AMD/UMD PDU header, bit                             | 8                              | 16     | 16                      | 16                     |
| MAC          | MAC header, bit                                     | 4                              | 4      | 4                       | 4                      |
|              | MAC multiplexing                                    | 4 logical channel multiplexing |        |                         |                        |
| Layer 1      | TrCH type                                           | DCH                            |        |                         |                        |
|              | TB sizes, bit                                       | 148 (alt. 0,148) (note)        |        |                         |                        |
|              | TFS                                                 | 0x148 (alt. 1x0) (note)        |        |                         |                        |
|              |                                                     | 1x148                          |        |                         |                        |
|              | TTI, ms                                             | 10                             |        |                         |                        |
|              | Coding type                                         | CC 1/3                         |        |                         |                        |
|              | CRC, bit                                            | 16                             |        |                         |                        |
|              | Max number of bits/TTI before rate matching         | 516                            |        |                         |                        |
|              | Max number of bits/radio frame before rate matching | 516                            |        |                         |                        |

NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UTRAN.

6.10.3.4.1.3.1.1.2 TFCS

|                                                                        |                              |
|------------------------------------------------------------------------|------------------------------|
| TFCS size                                                              | 2                            |
| TFCS                                                                   | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. |                              |

6.10.3.4.1.3.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 468 bits                   |
|             | TFCl code word                       | 8 bits                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.88                       |

NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bits.

## 6.10.3.4.1.3.2 Downlink

## 6.10.3.4.1.3.2.1 Transport channel parameters

## 6.10.3.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

|                                                                                         |                                                     |           |                                |        |                         |                        |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|--------------------------------|--------|-------------------------|------------------------|
| Higher layer                                                                            | RAB/signalling RB                                   |           | SRB#1                          | SRB#2  | SRB#3                   | SRB#4                  |
|                                                                                         | User of Radio Bearer                                |           | RRC                            | RRC    | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC                                                                                     | Logical channel type                                |           | DCCH                           | DCCH   | DCCH                    | DCCH                   |
|                                                                                         | RLC mode                                            |           | UM                             | AM     | AM                      | AM                     |
|                                                                                         | Payload sizes, bit                                  |           | 136                            | 128    | 128                     | 128                    |
|                                                                                         | Max data rate, bps                                  |           | 13 600                         | 12 800 | 12 800                  | 12 800                 |
|                                                                                         | AMD/UMD PDU header, bit                             |           | 8                              | 16     | 16                      | 16                     |
| MAC                                                                                     | MAC header, bit                                     |           | 4                              | 4      | 4                       | 4                      |
|                                                                                         | MAC multiplexing                                    |           | 4 logical channel multiplexing |        |                         |                        |
| Layer 1                                                                                 | TrCH type                                           |           | DCH                            |        |                         |                        |
|                                                                                         | TB sizes, bit                                       |           | 148 (alt. 0,148) (note)        |        |                         |                        |
|                                                                                         | TFS                                                 | TF0, bits | 0x148 (alt. 1x0) (note)        |        |                         |                        |
|                                                                                         |                                                     | TF1, bits | 1x148                          |        |                         |                        |
|                                                                                         | TTI, ms                                             |           | 10                             |        |                         |                        |
|                                                                                         | Coding type                                         |           | CC 1/3                         |        |                         |                        |
|                                                                                         | CRC, bit                                            |           | 16                             |        |                         |                        |
|                                                                                         | Max number of bits/TTI before rate matching         |           | 516                            |        |                         |                        |
|                                                                                         | Max number of bits/radio frame before rate matching |           | 516                            |        |                         |                        |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. |                                                     |           |                                |        |                         |                        |

## 6.10.3.4.1.3.2.1.2 TFCS

|                                                                        |                              |
|------------------------------------------------------------------------|------------------------------|
| TFCS size                                                              | 2                            |
| TFCS                                                                   | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. |                              |

## 6.10.3.4.1.3.2.2 Physical channel parameters

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 512 chips                    |
|                                                                                               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 480 bits                     |
|                                                                                               | TFCI code word                       | 8 bits                       |
|                                                                                               | Puncturing limit                     | 0.92                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. |                                      |                              |

## 6.10.3.4.1.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.4.1 Uplink

## 6.10.3.4.1.4.1.1 Transport channel parameters

## 6.10.3.4.1.4.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

|              |                      |                            |                |                |
|--------------|----------------------|----------------------------|----------------|----------------|
| Higher layer | RAB/Signalling RB    | RAB subflow #1             | RAB subflow #2 | RAB subflow #3 |
| RLC          | Logical channel type | DTCH                       |                |                |
|              | RLC mode             | TM                         | TM             | TM             |
|              | Payload sizes, bit   | 39, 81<br>(alt. 0, 39, 81) | 103            | 60             |
|              | Max data rate, bps   | 12 200                     |                |                |
|              | TrD PDU header, bit  | 0                          |                |                |
| MAC          | MAC header, bit      | 0                          |                |                |
|              | MAC multiplexing     | N/A                        |                |                |
| Layer 1      | TrCH type            | DCH                        | DCH            | DCH            |

|                                                                                                                                                                                                                           |                                                     |            |                            |            |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|----------------------------|------------|--------|
|                                                                                                                                                                                                                           | TB sizes, bit                                       |            | 39, 81<br>(alt. 0, 39, 81) | 103        | 60     |
|                                                                                                                                                                                                                           | TFS                                                 | TF0, bits  | 0x81(alt. 1x0) (note)      | 0x103      | 0x60   |
|                                                                                                                                                                                                                           |                                                     | TF1, bits  | 1x39                       | 1x103      | 1x60   |
|                                                                                                                                                                                                                           |                                                     | TF2, bits  | 1x81                       | N/A        | N/A    |
|                                                                                                                                                                                                                           | TTI, ms                                             |            | 20                         | 20         | 20     |
|                                                                                                                                                                                                                           | Coding type                                         |            | CC 1/3                     | CC 1/3     | CC 1/2 |
|                                                                                                                                                                                                                           | CRC, bit                                            |            | 12                         | N/A        | N/A    |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         |            | 303                        | 333        | 136    |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching |            | 152                        | 167        | 68     |
| RM attribute                                                                                                                                                                                                              |                                                     | 180 to 220 | 170 to 210                 | 215 to 256 |        |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |            |                            |            |        |

#### 6.10.3.4.1.4.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.4.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                                                            |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                              |

#### 6.10.3.4.1.4.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bit                      |
|             | Puncturing Limit                     | 0.72                       |

#### 6.10.3.4.1.4.2 Downlink

#### 6.10.3.4.1.4.2.1 Transport channel parameters

#### 6.10.3.4.1.4.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB                           | RAB subflow #1            | RAB subflow #2 | RAB subflow #3 |
|--------------|---------------------------------------------|---------------------------|----------------|----------------|
| RLC          | Logical channel type                        | DTCH                      |                |                |
|              | RLC mode                                    | TM                        | TM             | TM             |
|              | Payload sizes, bit                          | 39,81 (alt. 0, 39, 81)    | 103            | 60             |
|              | Max data rate, bps                          | 12 200                    |                |                |
|              | TrD PDU header, bit                         | 0                         |                |                |
| MAC          | MAC header, bit                             | 0                         |                |                |
|              | MAC multiplexing                            | N/A                       |                |                |
| Layer 1      | TrCH type                                   | DCH                       | DCH            | DCH            |
|              | TB sizes, bit                               | 39,81 (alt. 0,39,81)      | 103            | 60             |
|              | TFS                                         | 0x81 (alt. 1x0)<br>(note) | 0x103          | 0x60           |
|              |                                             |                           |                |                |
|              |                                             |                           |                |                |
|              | TF1, bits                                   | 1x39                      | 1x103          | 1x60           |
|              | TF2, bits                                   | 1x81                      | N/A            | N/A            |
|              | TTI, ms                                     | 20                        | 20             | 20             |
|              | Coding type                                 | CC 1/3                    | CC 1/3         | CC 1/2         |
|              | CRC, bit                                    | 12                        | N/A            | N/A            |
|              | Max number of bits/TTI after channel coding | 303                       | 333            | 136            |

|                                                                                                                                                                                        |                                                     |            |            |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|------------|------------|
|                                                                                                                                                                                        | Max number of bits/radio frame before rate matching | 152        | 167        | 68         |
|                                                                                                                                                                                        | RM attribute                                        | 180 to 220 | 170 to 210 | 215 to 256 |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |            |            |            |

#### 6.10.3.4.1.4.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.4.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                                                             |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                               |

#### 6.10.3.4.1.4.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCl code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.76                         |

#### 6.10.3.4.1.4a Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.3.4.1.4a.1 Uplink

##### 6.10.3.4.1.4a.1.1 Transport channel parameters

##### 6.10.3.4.1.4a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB                                   | RAB subflow #1                                     | RAB subflow #2        | RAB subflow #3 |
|--------------|-----------------------------------------------------|----------------------------------------------------|-----------------------|----------------|
| RLC          | Logical channel type                                | DTCH                                               |                       |                |
|              | RLC mode                                            | TM                                                 | TM                    | TM             |
|              | Payload sizes, bit                                  | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103       | 60             |
|              | Max data rate, bps                                  | 12 200                                             |                       |                |
|              | TrD PDU header, bit                                 | 0                                                  |                       |                |
| MAC          | MAC header, bit                                     | 0                                                  |                       |                |
|              | MAC multiplexing                                    | N/A                                                |                       |                |
| Layer 1      | TrCH type                                           | DCH                                                | DCH                   | DCH            |
|              | TB sizes, bit                                       | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103       | 60             |
|              | TFS                                                 | TF0, bits                                          | 0x81(alt. 1x0) (note) | 0x103          |
|              |                                                     | TF1, bits                                          | 1x39                  | 1x53           |
|              |                                                     | TF2 bits                                           | 1x42                  | 1x63           |
|              |                                                     | TF3, bits                                          | 1x55                  | 1x84           |
|              |                                                     | TF4, bits                                          | 1x75                  | 1x103          |
|              |                                                     | TF5, bits                                          | 1x81                  | N/A            |
|              | TTI, ms                                             | 20                                                 | 20                    | 20             |
|              | Coding type                                         | CC 1/3                                             | CC 1/3                | CC 1/2         |
|              | CRC, bit                                            | 12                                                 | N/A                   | N/A            |
|              | Max number of bits/TTI after channel coding         | 303                                                | 333                   | 136            |
|              | Max number of bits/radio frame before rate matching | 152                                                | 167                   | 68             |
|              | RM attribute                                        | 180 to 220                                         | 170 to 210            | 215 to 256     |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

#### 6.10.3.4.1.4a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.4a.1.1.3 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                                                                                               |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),<br>(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                  |

#### 6.10.3.4.1.4a.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCl code word                       | 16 bits                    |
|             | TPC                                  | 2 bit                      |
|             | Puncturing Limit                     | 0.72                       |

#### 6.10.3.4.1.4a.2 Downlink

#### 6.10.3.4.1.4a.2.1 Transport channel parameters

#### 6.10.3.4.1.4a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB                                   | RAB subflow #1                                     | RAB subflow #2        | RAB subflow #3 |
|--------------|-----------------------------------------------------|----------------------------------------------------|-----------------------|----------------|
| RLC          | Logical channel type                                | DTCH                                               |                       |                |
|              | RLC mode                                            | TM                                                 | TM                    | TM             |
|              | Payload sizes, bit                                  | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103       | 60             |
|              | Max data rate, bps                                  | 12 200                                             |                       |                |
|              | TrD PDU header, bit                                 | 0                                                  |                       |                |
| MAC          | MAC header, bit                                     | 0                                                  |                       |                |
|              | MAC multiplexing                                    | N/A                                                |                       |                |
| Layer 1      | TrCH type                                           | DCH                                                | DCH                   | DCH            |
|              | TB sizes, bit                                       | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103       | 60             |
|              | TFS                                                 | TF0, bits                                          | 0x81(alt. 1x0) (note) | 0x103          |
|              |                                                     | TF1, bits                                          | 1x39                  | 1x53           |
|              |                                                     | TF2, bits                                          | 1x42                  | 1x63           |
|              |                                                     | TF3, bits                                          | 1x55                  | 1x84           |
|              |                                                     | TF4, bits                                          | 1x75                  | 1x103          |
|              |                                                     | TF5, bits                                          | 1x81                  | N/A            |
|              | TTI, ms                                             | 20                                                 | 20                    | 20             |
|              | Coding type                                         | CC 1/3                                             | CC 1/3                | CC 1/2         |
|              | CRC, bit                                            | 12                                                 | N/A                   | N/A            |
|              | Max number of bits/TTI after channel coding         | 303                                                | 333                   | 136            |
|              | Max number of bits/radio frame before rate matching | 152                                                | 167                   | 68             |
|              | RM attribute                                        | 180 to 220                                         | 170 to 210            | 215 to 256     |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

## 6.10.3.4.1.4a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.4a.2.1.3 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                                                                                               |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),<br>(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                  |

## 6.10.3.4.1.4a.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCl code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.76                         |

## 6.10.3.4.1.5 Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.5.1 Uplink

## 6.10.3.4.1.5.1.1 Transport channel parameters

## 6.10.3.4.1.5.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 kbps / CS RAB

| Higher layer                                                                                                                                                                                                             | RAB/Signalling RB                                   |           | RAB subflow #1             | RAB subflow #2 | RAB subflow #3 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|----------------------------|----------------|----------------|
| RLC                                                                                                                                                                                                                      | Logical channel type                                |           | DTCH                       |                |                |
|                                                                                                                                                                                                                          | RLC mode                                            |           | TM                         | TM             | TM             |
|                                                                                                                                                                                                                          | Payload sizes, bit                                  |           | 39, 65<br>(alt. 0, 39, 65) | 99             | 40             |
|                                                                                                                                                                                                                          | Max data rate, bps                                  |           | 10 200                     |                |                |
|                                                                                                                                                                                                                          | TrD PDU header, bit                                 |           | 0                          |                |                |
| MAC                                                                                                                                                                                                                      | MAC header, bit                                     |           | 0                          |                |                |
|                                                                                                                                                                                                                          | MAC multiplexing                                    |           | N/A                        |                |                |
| Layer 1                                                                                                                                                                                                                  | TrCH type                                           |           | DCH                        | DCH            | DCH            |
|                                                                                                                                                                                                                          | TB sizes, bit                                       |           | 39, 65<br>(alt. 0, 39, 65) | 99             | 40             |
|                                                                                                                                                                                                                          | TFS                                                 | TF0, bits | 0x65 (alt. 1x0)<br>(note)  | 0x99           | 0x40           |
|                                                                                                                                                                                                                          |                                                     | TF1, bits | 1x39                       | 1x99           | 1x40           |
|                                                                                                                                                                                                                          |                                                     | TF2, bits | 1x65                       | N/A            | N/A            |
|                                                                                                                                                                                                                          | TTI, ms                                             |           | 20                         | 20             | 20             |
|                                                                                                                                                                                                                          | Coding type                                         |           | CC 1/3                     | CC 1/3         | CC 1/2         |
|                                                                                                                                                                                                                          | CRC, bit                                            |           | 12                         | N/A            | N/A            |
|                                                                                                                                                                                                                          | Max number of bits/TTI after channel coding         |           | 255                        | 321            | 96             |
|                                                                                                                                                                                                                          | Max number of bits/radio frame before rate matching |           | 128                        | 161            | 48             |
|                                                                                                                                                                                                                          | RM attribute                                        |           | 180 to 220                 | 170 to 210     | 215 to 256     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBIs are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |           |                            |                |                |

## 6.10.3.4.1.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.5.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                                                             |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                               |

#### 6.10.3.4.1.5.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                   |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.40                        |

#### 6.10.3.4.1.5.2 Downlink

##### 6.10.3.4.1.5.2.1 Transport channel parameters

##### 6.10.3.4.1.5.2.1.1 Transport channel parameters for Conversational / speech / DL:10.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB                                                                                                                                                                |           | RAB subflow #1         | RAB subflow #2 | RAB subflow #3 |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------|----------------|----------------|
| RLC          | Logical channel type                                                                                                                                                             |           | DTCH                   |                |                |
|              | RLC mode                                                                                                                                                                         |           | TM                     | TM             | TM             |
|              | Payload sizes, bit                                                                                                                                                               |           | 39,65 (alt. 0, 39, 65) | 99             | 40             |
|              | Max data rate, bps                                                                                                                                                               |           | 10 200                 |                |                |
|              | TrD PDU header, bit                                                                                                                                                              |           | 0                      |                |                |
| MAC          | MAC header, bit                                                                                                                                                                  |           | 0                      |                |                |
|              | MAC multiplexing                                                                                                                                                                 |           | N/A                    |                |                |
| Layer 1      | TrCH type                                                                                                                                                                        |           | DCH                    | DCH            | DCH            |
|              | TB sizes, bit                                                                                                                                                                    |           | 39, 65 (alt.0,39,65)   | 99             | 40             |
|              | TFS                                                                                                                                                                              | TF0, bits | 0x65 (alt.1x0) (note)  | 0x99           | 0x40           |
|              |                                                                                                                                                                                  | TF1, bits | 1x39                   | 1x99           | 1x40           |
|              |                                                                                                                                                                                  | TF2, bits | 1x65                   | N/A            | N/A            |
|              | TTI, ms                                                                                                                                                                          |           | 20                     | 20             | 20             |
|              | Coding type                                                                                                                                                                      |           | CC 1/3                 | CC 1/3         | CC 1/2         |
|              | CRC, bit                                                                                                                                                                         |           | 12                     | N/A            | N/A            |
|              | Max number of bits/TTI after channel coding                                                                                                                                      |           | 255                    | 321            | 96             |
|              | Max number of bits/radio frame before rate matching                                                                                                                              |           | 128                    | 161            | 48             |
|              | RM attribute                                                                                                                                                                     |           | 180 to 220             | 170 to 210     | 215 to 256     |
| NOTE:        | CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |           |                        |                |                |

##### 6.10.3.4.1.5.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.10.3.4.1.5.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                                                             |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                               |

#### 6.10.3.4.1.5.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                   |
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |

|  |                  |      |
|--|------------------|------|
|  | Puncturing limit | 0.40 |
|--|------------------|------|

6.10.3.4.1.5a Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.5a.1 Uplink

6.10.3.4.1.5a.1.1 Transport channel parameters

6.10.3.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer                                                                                                                                                                                                    | RAB/Signalling RB                                   | RAB subflow #1                                     | RAB subflow #2         | RAB subflow #3 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|------------------------|----------------|
| RLC                                                                                                                                                                                                             | Logical channel type                                | DTCH                                               |                        |                |
|                                                                                                                                                                                                                 | RLC mode                                            | TM                                                 | TM                     | TM             |
|                                                                                                                                                                                                                 | Payload sizes, bit                                  | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55, 58, 65) | 53, 63, 76, 99         | 40             |
|                                                                                                                                                                                                                 | Max data rate, bps                                  | 10 200                                             |                        |                |
|                                                                                                                                                                                                                 | TrD PDU header, bit                                 | 0                                                  |                        |                |
| MAC                                                                                                                                                                                                             | MAC header, bit                                     | 0                                                  |                        |                |
|                                                                                                                                                                                                                 | MAC multiplexing                                    | N/A                                                |                        |                |
| Layer 1                                                                                                                                                                                                         | TrCH type                                           | DCH                                                | DCH                    | DCH            |
|                                                                                                                                                                                                                 | TB sizes, bit                                       | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55, 58, 65) | 53, 63, 76, 99         | 40             |
|                                                                                                                                                                                                                 | TFS                                                 | TF0, bits                                          | 0x65 (alt. 1x0) (note) | 0x99           |
|                                                                                                                                                                                                                 |                                                     | TF1, bits                                          | 1x39                   | 1x53           |
|                                                                                                                                                                                                                 |                                                     | TF2, bits                                          | 1x42                   | 1x63           |
|                                                                                                                                                                                                                 |                                                     | TF3, bits                                          | 1x55                   | 1x76           |
|                                                                                                                                                                                                                 |                                                     | TF4, bits                                          | 1x58                   | 1x99           |
|                                                                                                                                                                                                                 |                                                     | TF5, bits                                          | 1x65                   | N/A            |
|                                                                                                                                                                                                                 | TTI, ms                                             | 20                                                 | 20                     | 20             |
|                                                                                                                                                                                                                 | Coding type                                         | CC 1/3                                             | CC 1/3                 | CC 1/2         |
|                                                                                                                                                                                                                 | CRC, bit                                            | 12                                                 | N/A                    | N/A            |
|                                                                                                                                                                                                                 | Max number of bits/TTI after channel coding         | 255                                                | 321                    | 96             |
|                                                                                                                                                                                                                 | Max number of bits/radio frame before rate matching | 128                                                | 161                    | 48             |
|                                                                                                                                                                                                                 | RM attribute                                        | 180 to 220                                         | 170 to 210             | 215 to 256     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222). |                                                     |                                                    |                        |                |

6.10.3.4.1.5a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.5a.1.1.3 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                                                                                                                                   |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF3, TF2, TF0, TF0),<br>(TF4, TF3, TF0, TF0), (TF5, TF4, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1),<br>(TF2, TF1, TF0, TF1), (TF3, TF2, TF0, TF1), (TF4, TF3, TF0, TF1), (TF5, TF4, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                      |

6.10.3.4.1.5a.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                   |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.40                        |



## 6.10.3.4.1.5a.2 Downlink

## 6.10.3.4.1.5a.2.1 Transport channel parameters

## 6.10.3.4.1.5a.2.1.1 Transport channel parameters for Conversational / speech / DL: DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                   | RAB subflow #1                                     | RAB subflow #2         | RAB subflow #3 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|------------------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                | DTCH                                               |                        |                |
|                                                                                                                                                                                                                           | RLC mode                                            | TM                                                 | TM                     | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                  | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55, 58, 65) | 0, 53, 63, 76, 99      | 40             |
|                                                                                                                                                                                                                           | Max data rate, bps                                  | 10 200                                             |                        |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                 | 0                                                  |                        |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                     | 0                                                  |                        |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                    | N/A                                                |                        |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                           | DCH                                                | DCH                    | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                       | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55, 58, 65) | 0, 53, 63, 76, 99      | 40             |
|                                                                                                                                                                                                                           | TFS                                                 | TF0, bits                                          | 0x65 (alt. 1x0) (note) | 0x99           |
|                                                                                                                                                                                                                           |                                                     | TF1, bits                                          | 1x39                   | 1x53           |
|                                                                                                                                                                                                                           |                                                     | TF2, bits                                          | 1x42                   | 1x63           |
|                                                                                                                                                                                                                           |                                                     | TF3, bits                                          | 1x55                   | 1x76           |
|                                                                                                                                                                                                                           |                                                     | TF4, bits                                          | 1x58                   | 1x99           |
|                                                                                                                                                                                                                           |                                                     | TF5, bits                                          | 1x65                   | N/A            |
|                                                                                                                                                                                                                           | TTI, ms                                             | 20                                                 | 20                     | 20             |
|                                                                                                                                                                                                                           | Coding type                                         | CC 1/3                                             | CC 1/3                 | CC 1/2         |
|                                                                                                                                                                                                                           | CRC, bit                                            | 12                                                 | N/A                    | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         | 255                                                | 321                    | 96             |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching | 128                                                | 161                    | 48             |
|                                                                                                                                                                                                                           | RM attribute                                        | 180 to 220                                         | 170 to 210             | 215 to 256     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                                                    |                        |                |

## 6.10.3.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.5a.2.1.3 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                                                                                                                                   |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF3, TF2, TF0, TF0),<br>(TF4, TF3, TF0, TF0), (TF5, TF4, TF1, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1),<br>(TF2, TF1, TF0, TF1), (TF3, TF2, TF0, TF1), (TF4, TF3, TF0, TF1), (TF5, TF4, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                      |

## 6.10.3.4.1.5a.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 1 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                     |
|               | TFCl code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.40                         |

## 6.10.3.4.1.6 Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.6.1 Uplink

## 6.10.3.4.1.6.1.1 Transport channel parameters

## 6.10.3.4.1.6.1.1.1 Transport channel parameters for Conversational / speech / UL:7.95 kbps / CS RAB

| Higher layer | RAB/Signalling RB                                                                                                                                                                                                    | RAB subflow #1          | RAB subflow #2         |      |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|------|
| RLC          | Logical channel type                                                                                                                                                                                                 | DTCH                    |                        |      |
|              | RLC mode                                                                                                                                                                                                             | TM                      | TM                     |      |
|              | Payload sizes, bit                                                                                                                                                                                                   | 39, 75 (alt. 0, 39, 75) | 84                     |      |
|              | Max data rate, bps                                                                                                                                                                                                   | 7 950                   |                        |      |
|              | TrD PDU header, bit                                                                                                                                                                                                  | 0                       |                        |      |
| MAC          | MAC header, bit                                                                                                                                                                                                      | 0                       |                        |      |
|              | MAC multiplexing                                                                                                                                                                                                     | N/A                     |                        |      |
| Layer 1      | TrCH type                                                                                                                                                                                                            | DCH                     | DCH                    |      |
|              | TB sizes, bit                                                                                                                                                                                                        | 39, 75 (alt. 0, 39, 75) | 84                     |      |
|              | TFS                                                                                                                                                                                                                  | TF0, bits               | 0x75 (alt. 1x0) (note) | 0x84 |
|              |                                                                                                                                                                                                                      | TF1, bits               | 1x39                   | 1x84 |
|              |                                                                                                                                                                                                                      | TF2, bits               | 1x75                   | N/A  |
|              | TTI, ms                                                                                                                                                                                                              | 20                      | 20                     |      |
|              | Coding type                                                                                                                                                                                                          | CC 1/3                  | CC 1/3                 |      |
|              | CRC, bit                                                                                                                                                                                                             | 12                      | N/A                    |      |
|              | Max number of bits/TTI after channel coding                                                                                                                                                                          | 285                     | 276                    |      |
|              | Max number of bits/radio frame before rate matching                                                                                                                                                                  | 143                     | 138                    |      |
|              | RM attribute                                                                                                                                                                                                         | 180 to 220              | 170 to 210             |      |
| NOTE:        | In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clauses 4.2.1.1 in 3GPP TS 25.222 [29]). |                         |                        |      |

## 6.10.3.4.1.6.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.6.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

## 6.10.3.4.1.6.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                   |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.44                        |

## 6.10.3.4.1.6.2 Downlink

## 6.10.3.4.1.6.2.1 Transport channel parameters

## 6.10.3.4.1.6.2.1.1 Transport channel parameters for Conversational / speech / DL:7.95 kbps / CS RAB

| Higher layer | RAB/Signalling RB    | RAB subflow #1          | RAB subflow #2 |
|--------------|----------------------|-------------------------|----------------|
| RLC          | Logical channel type | DTCH                    |                |
|              | RLC mode             | TM                      | TM             |
|              | Payload sizes, bit   | 39, 75 (alt. 0, 39, 75) | 84             |
|              | Max data rate, bps   | 7 950                   |                |
|              | TrD PDU header, bit  | 0                       |                |
| MAC          | MAC header, bit      | 0                       |                |
|              | MAC multiplexing     | N/A                     |                |
| Layer 1      | TrCH type            | DCH                     | DCH            |
|              | TB sizes, bit        | 39, 75 (alt. 0, 39, 75) | 84             |
|              | TFS                  | 0x75 (alt. 1x0) (note)  |                |
|              |                      | 0x84                    |                |
|              | TF1, bits            | 1x39                    |                |
|              |                      | 1x84                    |                |

|                                                                                                                                                                                        |                                                     |            |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|------------|
|                                                                                                                                                                                        | TF2, bits                                           | 1x75       | N/A        |
|                                                                                                                                                                                        | TTI, ms                                             | 20         | 20         |
|                                                                                                                                                                                        | Coding type                                         | CC 1/3     | CC 1/3     |
|                                                                                                                                                                                        | CRC, bit                                            | 12         | N/A        |
|                                                                                                                                                                                        | Max number of bits/TTI after channel coding         | 285        | 276        |
|                                                                                                                                                                                        | Max number of bits/radio frame before rate matching | 143        | 138        |
|                                                                                                                                                                                        | RM attribute                                        | 180 to 220 | 170 to 210 |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |            |            |

#### 6.10.3.4.1.6.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.6.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

#### 6.10.3.4.1.6.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                   |
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCl code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.48                        |

#### 6.10.3.4.1.7 Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.3.4.1.7.1 Uplink

##### 6.10.3.4.1.7.1.1 Transport channel parameters

##### 6.10.3.4.1.7.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 kbps / CS RAB

| Higher layer                                                                                                                                                                           | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|----------------|
| RLC                                                                                                                                                                                    | Logical channel type                                | DTCH                    |                |
|                                                                                                                                                                                        | RLC mode                                            | TM                      | TM             |
|                                                                                                                                                                                        | Payload sizes, bit                                  | 39, 61 (alt. 0, 39, 61) | 87             |
|                                                                                                                                                                                        | Max data rate, bps                                  | 7 400                   |                |
|                                                                                                                                                                                        | TrD PDU header, bit                                 | 0                       |                |
| MAC                                                                                                                                                                                    | MAC header, bit                                     | 0                       |                |
|                                                                                                                                                                                        | MAC multiplexing                                    | N/A                     |                |
| Layer 1                                                                                                                                                                                | TrCH type                                           | DCH                     | DCH            |
|                                                                                                                                                                                        | TB sizes, bit                                       | 39, 61 (alt. 0, 39, 61) | 87             |
|                                                                                                                                                                                        | TFS                                                 | 0x61 (alt. 1x0) (note)  |                |
|                                                                                                                                                                                        |                                                     | TF0, bits               | 0x87           |
|                                                                                                                                                                                        |                                                     | TF1, bits               | 1x87           |
|                                                                                                                                                                                        |                                                     | TF2, bits               | N/A            |
|                                                                                                                                                                                        | TTI, ms                                             | 20                      | 20             |
|                                                                                                                                                                                        | Coding type                                         | CC 1/3                  | CC 1/3         |
|                                                                                                                                                                                        | CRC, bit                                            | 12                      | N/A            |
|                                                                                                                                                                                        | Max number of bits/TTI after channel coding         | 243                     | 285            |
|                                                                                                                                                                                        | Max number of bits/radio frame before rate matching | 122                     | 143            |
|                                                                                                                                                                                        | RM attribute                                        | 180 to 220              | 170 to 210     |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                         |                |

## 6.10.3.4.1.7.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.7.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

## 6.10.3.4.1.7.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                   |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.48                        |

## 6.10.3.4.1.7.2 Downlink

## 6.10.3.4.1.7.2.1 Transport channel parameters

## 6.10.3.4.1.7.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 kbps / CS RAB

| Higher layer                                                                                                                                                                    | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|----------------|
| RLC                                                                                                                                                                             | Logical channel type                                | DTCH                    |                |
|                                                                                                                                                                                 | RLC mode                                            | TM                      | TM             |
|                                                                                                                                                                                 | Payload sizes, bit                                  | 39, 61 (alt. 0, 39, 61) | 87             |
|                                                                                                                                                                                 | Max data rate, bps                                  | 7 400                   |                |
|                                                                                                                                                                                 | TrD PDU header, bit                                 | 0                       |                |
| MAC                                                                                                                                                                             | MAC header, bit                                     | 0                       |                |
|                                                                                                                                                                                 | MAC multiplexing                                    | N/A                     |                |
| Layer 1                                                                                                                                                                         | TrCH type                                           | DCH                     | DCH            |
|                                                                                                                                                                                 | TB sizes, bit                                       | 39, 61 (alt. 0, 39, 61) | 87             |
|                                                                                                                                                                                 | TFS                                                 | 0x61(alt. 1x0) (note)   |                |
|                                                                                                                                                                                 |                                                     | TF0, bits               | 0x87           |
|                                                                                                                                                                                 |                                                     | TF1, bits               | 1x87           |
|                                                                                                                                                                                 |                                                     | TF2, bits               | N/A            |
|                                                                                                                                                                                 | TTI, ms                                             | 20                      | 20             |
|                                                                                                                                                                                 | Coding type                                         | CC 1/3                  | CC 1/3         |
|                                                                                                                                                                                 | CRC, bit                                            | 12                      | N/A            |
|                                                                                                                                                                                 | Max number of bits/TTI after channel coding         | 243                     | 285            |
|                                                                                                                                                                                 | Max number of bits/radio frame before rate matching | 122                     | 143            |
|                                                                                                                                                                                 | RM attribute                                        | 180 to 220              | 170 to 210     |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB #1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                         |                |

## 6.10.3.4.1.7.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.7.2.1.3 TFCS

|                                                                                                                    |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                          | 6                                                                                                                                                |
| TFCS                                                                                                               | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; optional otherwise. |                                                                                                                                                  |

## 6.10.3.4.1.7.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                   |
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.48                        |

6.10.3.4.1.7a Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.7a.1 Uplink

6.10.3.4.1.7a.1.1 Transport channel parameters

6.10.3.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                   |           | RAB subflow #1                                     | RAB subflow #2 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|----------------------------------------------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                |           | DTCH                                               |                |
|                                                                                                                                                                                                                           | RLC mode                                            |           | TM                                                 | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                  |           | 39, 42, 55, 58, 61<br>(alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 |
|                                                                                                                                                                                                                           | Max data rate, bps                                  |           | 7 400                                              |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                 |           | 0                                                  |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                     |           | 0                                                  |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                    |           | N/A                                                |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                           |           | DCH                                                | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                       |           | 39, 42, 55, 58, 61<br>(alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 |
|                                                                                                                                                                                                                           | TFS                                                 | TF0, bits | 0x61 (alt. 1x0)<br>(note)                          | 0x87           |
|                                                                                                                                                                                                                           |                                                     | TF1, bits | 1x39                                               | 1x53           |
|                                                                                                                                                                                                                           |                                                     | TF2, bits | 1x42                                               | 1x63           |
|                                                                                                                                                                                                                           |                                                     | TF3, bits | 1x55                                               | 1x76           |
|                                                                                                                                                                                                                           |                                                     | TF4, bits | 1x58                                               | 1x87           |
|                                                                                                                                                                                                                           |                                                     | TF5, bits | 1x61                                               | N/A            |
|                                                                                                                                                                                                                           | TTI, ms                                             |           | 20                                                 | 20             |
|                                                                                                                                                                                                                           | Coding type                                         |           | CC 1/3                                             | CC 1/3         |
|                                                                                                                                                                                                                           | CRC, bit                                            |           | 12                                                 | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         |           | 243                                                | 285            |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching |           | 122                                                | 143            |
|                                                                                                                                                                                                                           | RM attribute                                        |           | 180 to 220                                         | 170 to 210     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |           |                                                    |                |

6.10.3.4.1.7a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.7a.1.1.3 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                                                     |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, TF4, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                        |

6.10.3.4.1.7a.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                   |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |

|  |                  |      |
|--|------------------|------|
|  | Puncturing Limit | 0.48 |
|--|------------------|------|

## 6.10.3.4.1.7a.2 Downlink

## 6.10.3.4.1.7a.2.1 Transport channel parameters

## 6.10.3.4.1.7a.2.1.1 Transport channel parameters for Conversational / speech / DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                   | RAB subflow #1                                     | RAB subflow #2            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                | DTCH                                               |                           |
|                                                                                                                                                                                                                           | RLC mode                                            | TM                                                 | TM                        |
|                                                                                                                                                                                                                           | Payload sizes, bit                                  | 39, 42, 55, 58, 61<br>(alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87            |
|                                                                                                                                                                                                                           | Max data rate, bps                                  | 7 400                                              |                           |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                 | 0                                                  |                           |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                     | 0                                                  |                           |
|                                                                                                                                                                                                                           | MAC multiplexing                                    | N/A                                                |                           |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                           | DCH                                                | DCH                       |
|                                                                                                                                                                                                                           | TB sizes, bit                                       | 39, 42, 55, 58, 61<br>(alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87            |
|                                                                                                                                                                                                                           | TFS                                                 | TF0, bits                                          | 0x61 (alt. 1x0)<br>(note) |
|                                                                                                                                                                                                                           |                                                     | TF1, bits                                          | 1x39                      |
|                                                                                                                                                                                                                           |                                                     | TF2, bits                                          | 1x42                      |
|                                                                                                                                                                                                                           |                                                     | TF3, bits                                          | 1x55                      |
|                                                                                                                                                                                                                           |                                                     | TF4, bits                                          | 1x58                      |
|                                                                                                                                                                                                                           |                                                     | TF5, bits                                          | 1x61                      |
|                                                                                                                                                                                                                           | TTI, ms                                             | 20                                                 | 20                        |
|                                                                                                                                                                                                                           | Coding type                                         | CC 1/3                                             | CC 1/3                    |
|                                                                                                                                                                                                                           | CRC, bit                                            | 12                                                 | N/A                       |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         | 243                                                | 285                       |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching | 122                                                | 143                       |
|                                                                                                                                                                                                                           | RM attribute                                        | 180 to 220                                         | 170 to 210                |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                                                    |                           |

## 6.10.3.4.1.7a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.7a.2.1.3 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                                                     |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, TF4, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                        |

## 6.10.3.4.1.7a.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                   |
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.48                        |

6.10.3.4.1.8 Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.8.1 Uplink

6.10.3.4.1.8.1.1 Transport channel parameters

6.10.3.4.1.8.1.1.1 Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                | DTCH                    |                |
|                                                                                                                                                                                                                           | RLC mode                                            | TM                      | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                  | 39, 58 (alt. 0, 39, 58) | 76             |
|                                                                                                                                                                                                                           | Max data rate, bps                                  | 6 700                   |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                 | 0                       |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                     | 0                       |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                    | N/A                     |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                           | DCH                     | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                       | 39, 58 (alt. 0, 39, 58) | 76             |
|                                                                                                                                                                                                                           | TFS                                                 | 0x58 (alt. 1x0) (note)  |                |
|                                                                                                                                                                                                                           |                                                     | TF0, bits               | 0x76           |
|                                                                                                                                                                                                                           |                                                     | TF1, bits               | 1x76           |
|                                                                                                                                                                                                                           |                                                     | TF2, bits               | N/A            |
|                                                                                                                                                                                                                           | TTI, ms                                             | 20                      | 20             |
|                                                                                                                                                                                                                           | Coding type                                         | CC 1/3                  | CC 1/3         |
|                                                                                                                                                                                                                           | CRC, bit                                            | 12                      | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         | 234                     | 252            |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching | 117                     | 126            |
|                                                                                                                                                                                                                           | RM attribute                                        | 180 to 220              | 170 to 210     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                         |                |

6.10.3.4.1.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.8.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

6.10.3.4.1.8.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                   |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.52                        |

6.10.3.4.1.8.2 Downlink

6.10.3.4.1.8.2.1 Transport channel parameters

6.10.3.4.1.8.2.1.1 Transport channel parameters for Conversational / speech / DL:6.7 kbps / CS RAB

| Higher layer | RAB/Signalling RB    | RAB subflow #1          | RAB subflow #2 |
|--------------|----------------------|-------------------------|----------------|
| RLC          | Logical channel type | DTCH                    |                |
|              | RLC mode             | TM                      | TM             |
|              | Payload sizes, bit   | 39, 58 (alt. 0, 39, 58) | 76             |
|              | Max data rate, bps   | 6 700                   |                |

|                                                                                                                                                                                         |                                                     |                       |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------|-----------------------|
|                                                                                                                                                                                         | TrD PDU header, bit                                 | 0                     |                       |
| MAC                                                                                                                                                                                     | MAC header, bit                                     | 0                     |                       |
|                                                                                                                                                                                         | MAC multiplexing                                    | N/A                   |                       |
| Layer 1                                                                                                                                                                                 | TrCH type                                           | DCH                   | DCH                   |
|                                                                                                                                                                                         | TB sizes, bit                                       | 39, 58 (alt. 0,39,58) | 76                    |
|                                                                                                                                                                                         | TFS                                                 | TF0, bits             | 0x58 (alt.1x0) (note) |
|                                                                                                                                                                                         |                                                     | TF1, bits             | 1x39                  |
|                                                                                                                                                                                         |                                                     | TF2, bits             | 1x58                  |
|                                                                                                                                                                                         | TTI, ms                                             | 20                    | 20                    |
|                                                                                                                                                                                         | Coding type                                         | CC 1/3                | CC 1/3                |
|                                                                                                                                                                                         | CRC, bit                                            | 12                    | N/A                   |
|                                                                                                                                                                                         | Max number of bits/TTI after channel coding         | 234                   | 252                   |
|                                                                                                                                                                                         | Max number of bits/radio frame before rate matching | 117                   | 126                   |
|                                                                                                                                                                                         | RM attribute                                        | 180 to 220            | 170 to 210            |
| NOTE : CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                       |                       |

#### 6.10.3.4.1.8.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.8.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

#### 6.10.3.4.1.8.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                   |
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.52                        |

#### 6.10.3.4.1.9 Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.3.4.1.9.1 Uplink

#### 6.10.3.4.1.9.1.1 Transport channel parameters

#### 6.10.3.4.1.9.1.1.1 Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB

| Higher layer | RAB/Signalling RB    | RAB subflow #1          | RAB subflow #2         |
|--------------|----------------------|-------------------------|------------------------|
| RLC          | Logical channel type | DTCH                    |                        |
|              | RLC mode             | TM                      | TM                     |
|              | Payload sizes, bit   | 39, 55 (alt. 0, 39, 55) | 63                     |
|              | Max data rate, bps   | 5 900                   |                        |
|              | TrD PDU header, bit  | 0                       |                        |
| MAC          | MAC header, bit      | 0                       |                        |
|              | MAC multiplexing     | N/A                     |                        |
| Layer 1      | TrCH type            | DCH                     | DCH                    |
|              | TB sizes, bit        | 39, 55 (alt. 0, 39, 55) | 63                     |
|              | TFS                  | TF0, bits               | 0x55 (alt. 1x0) (note) |
|              |                      | TF1, bits               | 1x39                   |
|              |                      | TF2, bits               | 1x55                   |
|              | TTI, ms              | 20                      | 20                     |
|              | Coding type          | CC 1/3                  | CC 1/3                 |
|              | CRC, bit             | 12                      | N/A                    |



|                                                                                                                                                                                                                           |                                                     |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|------------|
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         | 225        | 213        |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching | 113        | 107        |
|                                                                                                                                                                                                                           | RM attribute                                        | 180 to 220 | 170 to 210 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |            |            |

#### 6.10.3.4.1.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.9.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

#### 6.10.3.4.1.9.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                   |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCl code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.56                        |

#### 6.10.3.4.1.9.2 Downlink

#### 6.10.3.4.1.9.2.1 Transport channel parameters

##### 6.10.3.4.1.9.2.1.1 Transport channel parameters for Conversational / speech / DL:5.9 kbps / CS RAB

| Higher layer                                                                                                                                                                           | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|----------------|
| RLC                                                                                                                                                                                    | Logical channel type                                | DTCH                    |                |
|                                                                                                                                                                                        | RLC mode                                            | TM                      | TM             |
|                                                                                                                                                                                        | Payload sizes, bit                                  | 39, 55 (alt. 0, 39, 55) | 63             |
|                                                                                                                                                                                        | Max data rate, bps                                  | 5 900                   |                |
|                                                                                                                                                                                        | TrD PDU header, bit                                 | 0                       |                |
| MAC                                                                                                                                                                                    | MAC header, bit                                     | 0                       |                |
|                                                                                                                                                                                        | MAC multiplexing                                    | N/A                     |                |
| Layer 1                                                                                                                                                                                | TrCH type                                           | DCH                     | DCH            |
|                                                                                                                                                                                        | TB sizes, bit                                       | 39, 55 (alt. 0, 39, 55) | 63             |
|                                                                                                                                                                                        | TFS                                                 | 0x55 (alt. 1x0) (note)  |                |
|                                                                                                                                                                                        |                                                     | TF0, bits               | 0x63           |
|                                                                                                                                                                                        |                                                     | TF1, bits               | 1x63           |
|                                                                                                                                                                                        |                                                     | TF2, bits               | N/A            |
|                                                                                                                                                                                        | TTI, ms                                             | 20                      | 20             |
|                                                                                                                                                                                        | Coding type                                         | CC 1/3                  | CC 1/3         |
|                                                                                                                                                                                        | CRC, bit                                            | 12                      | N/A            |
|                                                                                                                                                                                        | Max number of bits/TTI after channel coding         | 225                     | 213            |
|                                                                                                                                                                                        | Max number of bits/radio frame before rate matching | 113                     | 107            |
|                                                                                                                                                                                        | RM attribute                                        | 180 to 220              | 170 to 210     |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                         |                |

#### 6.10.3.4.1.9.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.9.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

#### 6.10.3.4.1.9.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                   |
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCl code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.56                        |

6.10.3.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.10.3.4.1.10.1 Uplink

6.10.3.4.1.10.1.1 Transport channel parameters

6.10.3.4.1.10.1.1.1 Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB

| Higher layer | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2 |
|--------------|-----------------------------------------------------|-------------------------|----------------|
| RLC          | Logical channel type                                | DTCH                    |                |
|              | RLC mode                                            | TM                      | TM             |
|              | Payload sizes, bit                                  | 39, 49 (alt. 0, 39, 49) | 54             |
|              | Max data rate, bps                                  | 5 150                   |                |
|              | TrD PDU header, bit                                 | 0                       |                |
| MAC          | MAC header, bit                                     | 0                       |                |
|              | MAC multiplexing                                    | N/A                     |                |
| Layer 1      | TrCH type                                           | DCH                     | DCH            |
|              | TB sizes, bit                                       | 39, 49 (alt. 0, 39, 49) | 54             |
|              | TFS                                                 | 0x49 (alt. 1x0) (note)  |                |
|              |                                                     | TF0, bits               | 0x54           |
|              |                                                     | TF1, bits               | 1x54           |
|              |                                                     | TF2, bits               | 1x49           |
|              | TTI, ms                                             | 20                      | N/A            |
|              | Coding type                                         | CC 1/3                  | 20             |
|              | CRC, bit                                            | 12                      | CC 1/3         |
|              | Max number of bits/TTI after channel coding         | 186                     | N/A            |
|              | Max number of bits/radio frame before rate matching | 207                     | 93             |
|              | RM attribute                                        | 104                     | 186            |
|              |                                                     | 180 to 220              | 170 to 210     |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

6.10.3.4.1.10.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.1.

6.10.3.4.1.10.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

## 6.10.3.4.1.10.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                   |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCl code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.72                        |

## 6.10.3.4.1.10.2 Downlink

## 6.10.3.4.1.10.2.1 Transport channel parameters

## 6.10.3.4.1.10.2.1.1 Transport channel parameters for Conversational / speech / DL:5.15 kbps / CS RAB

| Higher layer                                                                                                                                                                           | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|------------------------|
| RLC                                                                                                                                                                                    | Logical channel type                                | DTCH                    |                        |
|                                                                                                                                                                                        | RLC mode                                            | TM                      | TM                     |
|                                                                                                                                                                                        | Payload sizes, bit                                  | 39, 49 (alt. 0, 39, 49) | 54                     |
|                                                                                                                                                                                        | Max data rate, bps                                  | 5 150                   |                        |
|                                                                                                                                                                                        | TrD PDU header, bit                                 | 0                       |                        |
| MAC                                                                                                                                                                                    | MAC header, bit                                     | 0                       |                        |
|                                                                                                                                                                                        | MAC multiplexing                                    | N/A                     |                        |
| Layer 1                                                                                                                                                                                | TrCH type                                           | DCH                     | DCH                    |
|                                                                                                                                                                                        | TB sizes, bit                                       | 39, 49 (alt. 0, 39, 49) | 54                     |
|                                                                                                                                                                                        | TFS                                                 | TF0, bits               | 0x49 (alt. 1x0) (note) |
|                                                                                                                                                                                        |                                                     | TF1, bits               | 1x39                   |
|                                                                                                                                                                                        |                                                     | TF2, bits               | 1x54                   |
|                                                                                                                                                                                        |                                                     |                         | N/A                    |
|                                                                                                                                                                                        | TTI, ms                                             | 20                      | 20                     |
|                                                                                                                                                                                        | Coding type                                         | CC 1/3                  | CC 1/3                 |
|                                                                                                                                                                                        | CRC, bit                                            | 12                      | N/A                    |
|                                                                                                                                                                                        | Max number of bits/TTI after channel coding         | 207                     | 186                    |
|                                                                                                                                                                                        | Max number of bits/radio frame before rate matching | 104                     | 93                     |
|                                                                                                                                                                                        | RM attribute                                        | 180 to 220              | 170 to 210             |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                         |                        |

## 6.10.3.4.1.10.2.1.2 Transport channel parameters for DL: 1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

## 6.10.3.4.1.10.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

## 6.10.3.4.1.10.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                   |
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCl code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.72                        |

6.10.3.4.1.11 Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.10.3.4.1.11.1 Uplink

6.10.3.4.1.11.1.1 Transport channel parameters

6.10.3.4.1.11.1.1.1 Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                | DTCH                    |                |
|                                                                                                                                                                                                                           | RLC mode                                            | TM                      | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                  | 39, 42 (alt. 0, 39, 42) | 53             |
|                                                                                                                                                                                                                           | Max data rate, bps                                  | 4 750                   |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                 | 0                       |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                     | 0                       |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                    | N/A                     |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                           | DCH                     | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                       | 39, 42 (alt. 0, 39, 42) | 53             |
|                                                                                                                                                                                                                           | TFS                                                 | 0x42 (alt. 1x0) (note)  |                |
|                                                                                                                                                                                                                           |                                                     | TF0, bits               | 0x53           |
|                                                                                                                                                                                                                           |                                                     | TF1, bits               | 1x53           |
|                                                                                                                                                                                                                           |                                                     | TF2, bits               | N/A            |
|                                                                                                                                                                                                                           | TTI, ms                                             | 20                      | 20             |
|                                                                                                                                                                                                                           | Coding type                                         | CC 1/3                  | CC 1/3         |
|                                                                                                                                                                                                                           | CRC, bit                                            | 12                      | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         | 186                     | 183            |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching | 93                      | 92             |
|                                                                                                                                                                                                                           | RM attribute                                        | 180 to 220              | 170 to 210     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                         |                |

6.10.3.4.1.11.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.11.1.1.

6.10.3.4.1.11.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

6.10.3.4.1.11.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                   |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.76                        |

6.10.3.4.1.11.2 Downlink

6.10.3.4.1.11.2.1 Transport channel parameters

6.10.3.4.1.11.2.1.1 Transport channel parameters for Conversational / speech / DL:4.75 kbps / CS RAB

| Higher layer | RAB/Signalling RB    | RAB subflow #1          | RAB subflow #2 |
|--------------|----------------------|-------------------------|----------------|
| RLC          | Logical channel type | DTCH                    |                |
|              | RLC mode             | TM                      | TM             |
|              | Payload sizes, bit   | 39, 42 (alt. 0, 39, 42) | 53             |
|              | Max data rate, bps   | 4 750                   |                |

|              |                                                                                                                                                                                  |            |                         |        |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|--------|
|              | TrD PDU header, bit                                                                                                                                                              |            | 0                       |        |
| MAC          | MAC header, bit                                                                                                                                                                  |            | 0                       |        |
|              | MAC multiplexing                                                                                                                                                                 |            | N/A                     |        |
| Layer 1      | TrCH type                                                                                                                                                                        |            | DCH                     | DCH    |
|              | TB sizes, bit                                                                                                                                                                    |            | 39, 42 (alt. 0, 39, 42) | 53     |
|              | TFS                                                                                                                                                                              | TF0, bits  | 0X42 (alt.1x0 )(note)   |        |
|              |                                                                                                                                                                                  | TF1, bits  | 1x39                    | 1x53   |
|              |                                                                                                                                                                                  | TF2, bits  | 1x42                    | N/A    |
|              | TTI, ms                                                                                                                                                                          |            | 20                      | 20     |
|              | Coding type                                                                                                                                                                      |            | CC 1/3                  | CC 1/3 |
|              | CRC, bit                                                                                                                                                                         |            | 12                      | N/A    |
|              | Max number of bits/TTI after channel coding                                                                                                                                      |            | 186                     | 183    |
|              | Max number of bits/radio frame before rate matching                                                                                                                              |            | 93                      | 92     |
| RM attribute |                                                                                                                                                                                  | 180 to 220 | 170 to 210              |        |
| NOTE:        | CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |            |                         |        |

#### 6.10.3.4.1.11.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

#### 6.10.3.4.1.11.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

#### 6.10.3.4.1.11.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                   |
|               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.76                        |

#### 6.10.3.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.3.4.1.12.1 Uplink

#### 6.10.3.4.1.12.1.1 Transport channel parameters

#### 6.10.3.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB

|                                                     |                                             |           |        |
|-----------------------------------------------------|---------------------------------------------|-----------|--------|
| Higher layer                                        | RAB/Signalling RB                           |           | RAB    |
| RLC                                                 | Logical channel type                        |           | DTCH   |
|                                                     | RLC mode                                    |           | TM     |
|                                                     | Payload sizes, bit                          |           | 576    |
|                                                     | Max data rate, bps                          |           | 28 800 |
|                                                     | TrD PDU header, bit                         |           | 0      |
| MAC                                                 | MAC header, bit                             |           | 0      |
|                                                     | MAC multiplexing                            |           | N/A    |
| Layer 1                                             | TrCH type                                   |           | DCH    |
|                                                     | TB sizes, bit                               |           | 576    |
|                                                     | TFS                                         | TF0, bits | 0x576  |
|                                                     |                                             | TF1, bits | 1x576  |
|                                                     | TTI, ms                                     |           | 20     |
|                                                     | Coding type                                 |           | TC     |
|                                                     | CRC, bit                                    |           | 16     |
|                                                     | Max number of bits/TTI after channel coding |           | 3 564  |
| Max number of bits/radio frame before rate matching |                                             | 891       |        |

|  |              |            |
|--|--------------|------------|
|  | RM attribute | 160 to 200 |
|--|--------------|------------|

#### 6.10.3.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.12.1.1.3 TFCS

|                                                                                                                          |                                                                          |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                        |
| TFCS                                                                                                                     | (28.8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                          |

#### 6.10.3.4.1.12.1.2 Physical channel parameters

|                                                                                             |                                      |                            |
|---------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|
| DPCH Uplink                                                                                 | Midamble                             | 512 chips                  |
|                                                                                             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|                                                                                             | Max. Number of data bits/radio frame | 904 bits                   |
|                                                                                             | TFCl code word                       | 16 bits                    |
|                                                                                             | TPC                                  | 2 bits                     |
|                                                                                             | Puncturing Limit                     | 0.76                       |
| NOTE: In case the first TFC in a TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                            |

#### 6.10.3.4.1.12.2 Downlink

#### 6.10.3.4.1.12.2.1 Transport channel parameters

#### 6.10.3.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB

|              |                                                     |            |        |
|--------------|-----------------------------------------------------|------------|--------|
| Higher layer | RAB/Signalling RB                                   |            | RAB    |
| RLC          | Logical channel type                                |            | DTCH   |
|              | RLC mode                                            |            | TM     |
|              | Payload sizes, bit                                  |            | 576    |
|              | Max data rate, bps                                  |            | 28 800 |
|              | TrD PDU header, bit                                 |            | 0      |
| MAC          | MAC header, bit                                     |            | 0      |
|              | MAC multiplexing                                    |            | N/A    |
| Layer 1      | TrCH type                                           |            | DCH    |
|              | TB sizes, bit                                       |            | 576    |
|              | TFS                                                 | TF0, bits  | 0x576  |
|              |                                                     | TF1, bits  | 1x576  |
|              | TTI, ms                                             |            | 20     |
|              | Coding type                                         |            | TC     |
|              | CRC, bit                                            |            | 16     |
|              | Max number of bits/TTI after channel coding         |            | 3 564  |
|              | Max number of bits/radio frame before rate matching |            | 891    |
| RM attribute |                                                     | 160 to 200 |        |

#### 6.10.3.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.12.2.1.3 TFCS

|                                                                                                                          |                                                                          |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                        |
| TFCS                                                                                                                     | (28.8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                          |

#### 6.10.3.4.1.12.2.2 Physical channel parameters

|               |          |           |
|---------------|----------|-----------|
| DPCH Downlink | Midamble | 512 chips |
|---------------|----------|-----------|

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
|                                                                                               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 472 bits                     |
|                                                                                               | TFCl code word                       | 16 bits                      |
|                                                                                               | Puncturing limit                     | 0.40                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                              |

6.10.3.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.13.1 Uplink

6.10.3.4.1.13.1.1 Transport channel parameters

6.10.3.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | TM         |
|              | Payload sizes, bit                                  |           | 640        |
|              | Max data rate, bps                                  |           | 64 000     |
|              | TrD PDU header, bit                                 |           | 0          |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 640        |
|              | TFS                                                 | TF0, bits | 0x640      |
|              |                                                     | TF1, bits | 2x640      |
|              | TTI, ms                                             |           | 20         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 3 948      |
|              | Max number of bits/radio frame before rate matching |           | 1 974      |
|              | RM attribute                                        |           | 150 to 195 |

6.10.3.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.13.1.1.3 TFCS

|                                                                                                                          |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                  |
| TFCS                                                                                                                     | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                    |

6.10.3.4.1.13.1.2 Physical channel parameters

|                                                                                               |                                      |                                                          |
|-----------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 512 chips                                                |
|                                                                                               | Codes and time slots                 | SF16 x 1 code x 1 time slot + SF4 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 1148 bits                                                |
|                                                                                               | TFCl code word                       | 16 bits                                                  |
|                                                                                               | TPC                                  | 2 bits                                                   |
|                                                                                               | Puncturing Limit                     | 0.48                                                     |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                                                          |

## 6.10.3.4.1.13.2 Downlink

## 6.10.3.4.1.13.2.1 Transport channel parameters

## 6.10.3.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | TM         |
|              | Payload sizes, bit                                  |           | 640        |
|              | Max data rate, bps                                  |           | 64 000     |
|              | TrD PDU header, bit                                 |           | 0          |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
|              |                                                     |           |            |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 640        |
|              | TFS                                                 | TF0, bits | 0x640      |
|              |                                                     | TF1, bits | 2x640      |
|              | TTI, ms                                             |           | 20         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 3 948      |
|              | Max number of bits/radio frame before rate matching |           | 1 974      |
|              | RM attribute                                        |           | 150 to 195 |

## 6.10.3.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.13.2.1.3 TFCS

|                                                                                                                          |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                  |
| TFCS                                                                                                                     | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                    |

## 6.10.3.4.1.13.2.2 Physical channel parameters

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 512 chips                    |
|                                                                                               | Codes and time slots                 | SF16 x 5 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 1 204 bits                   |
|                                                                                               | TFCI code word                       | 16 bits                      |
|                                                                                               | Puncturing limit                     | 0.52                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. |                                      |                              |

## 6.10.3.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.14.1 Uplink

## 6.10.3.4.1.14.1.1 Transport channel parameters

## 6.10.3.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB

|              |                      |           |        |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB    |           | RAB    |
| RLC          | Logical channel type |           | DTCH   |
|              | RLC mode             |           | TM     |
|              | Payload sizes, bit   |           | 640    |
|              | Max data rate, bps   |           | 32 000 |
|              | TrD PDU header, bit  |           | 0      |
| MAC          | MAC header, bit      |           | 0      |
|              | MAC multiplexing     |           | N/A    |
|              |                      |           |        |
| Layer 1      | TrCH type            |           | DCH    |
|              | TB sizes, bit        |           | 640    |
|              | TFS                  | TF0, bits | 0x640  |



|  |                                                     |            |
|--|-----------------------------------------------------|------------|
|  | TF1, bits                                           | 1x640      |
|  | TTI, ms                                             | 20         |
|  | Coding type                                         | TC         |
|  | CRC, bit                                            | 16         |
|  | Max number of bits/TTI after channel coding         | 1 980      |
|  | Max number of bits/radio frame before rate matching | 990        |
|  | RM attribute                                        | 165 to 210 |

#### 6.10.3.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.14.1.1.3 TFCS

|                                                                                                                          |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                  |
| TFCS                                                                                                                     | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                    |

#### 6.10.3.4.1.14.1.2 Physical channel parameters

|                                                                                               |                                      |                            |
|-----------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 512 chips                  |
|                                                                                               | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 904 bits                   |
|                                                                                               | TFCl code word                       | 16 bits                    |
|                                                                                               | TPC                                  | 2 bits                     |
|                                                                                               | Puncturing Limit                     | 0.68                       |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                            |

#### 6.10.3.4.1.14.2 Downlink

#### 6.10.3.4.1.14.2.1 Transport channel parameters

#### 6.10.3.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | TM         |
|              | Payload sizes, bit                                  |           | 640        |
|              | Max data rate, bps                                  |           | 32 000     |
|              | TrD PDU header, bit                                 |           | 0          |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 640        |
|              | TFS                                                 | TF0, bits | 0x640      |
|              |                                                     | TF1, bits | 1x640      |
|              | TTI, ms                                             |           | 20         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 1 980      |
|              | Max number of bits/radio frame before rate matching |           | 990        |
|              | RM attribute                                        |           | 165 to 210 |

#### 6.10.3.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.14.2.1.3 TFCS

|                                                                                                                          |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                  |
| TFCS                                                                                                                     | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                    |

## 6.10.3.4.1.14.2.2 Physical channel parameters

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 512 chips                    |
|                                                                                               | Codes and time slots                 | SF16 x 3 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 716 bits                     |
|                                                                                               | TFCl code word                       | 16 bits                      |
|                                                                                               | Puncturing limit                     | 0.52                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                              |

6.10.3.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.15.1 Uplink

6.10.3.4.1.15.1.1 Transport channel parameters

6.10.3.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | TM         |
|              | Payload sizes, bit                                  |           | 576        |
|              | Max data rate, bps                                  |           | 14 400     |
|              | TrD PDU header, bit                                 |           | 0          |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 576        |
|              | TFS                                                 | TF0, bits | 0x576      |
|              |                                                     | TF1, bits | 1x576      |
|              | TTI, ms                                             |           | 40         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 1 788      |
|              | Max number of bits/radio frame before rate matching |           | 447        |
|              | RM attribute                                        |           | 145 to 185 |

6.10.3.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.15.1.1.3 TFCS

|                                                                                                                          |                                                                      |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                    |
| TFCS                                                                                                                     | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                      |

6.10.3.4.1.15.1.2 Physical channel parameters

|                                                                                               |                                      |                            |
|-----------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 512 chips                  |
|                                                                                               | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 452bits                    |
|                                                                                               | TFCl code word                       | 16 bits                    |
|                                                                                               | TPC                                  | 2 bits                     |
|                                                                                               | Puncturing Limit                     | 0.76                       |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                            |

## 6.10.3.4.1.15.2 Downlink

## 6.10.3.4.1.15.2.1 Transport channel parameters

## 6.10.3.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | TM         |
|              | Payload sizes, bit                                  |           | 576        |
|              | Max data rate, bps                                  |           | 14 400     |
|              | TrD PDU header, bit                                 |           | 0          |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 576        |
|              | TFS                                                 | TF0, bits | 0x576      |
|              |                                                     | TF1, bits | 1x576      |
|              | TTI, ms                                             |           | 40         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 1 788      |
|              | Max number of bits/radio frame before rate matching |           | 447        |
|              | RM attribute                                        |           | 145 to 185 |

## 6.10.3.4.1.15.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.15.2.1.3 TFCS

|                                                                                                                          |                                                                      |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                    |
| TFCS                                                                                                                     | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                      |

## 6.10.3.4.1.15.2.2 Physical channel parameters

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 512 chips                    |
|                                                                                               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 472 bits                     |
|                                                                                               | TFCl code word                       | 16 bits                      |
|                                                                                               | Puncturing limit                     | 0.80                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                              |

## 6.10.3.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.16.1 Uplink

## 6.10.3.4.1.16.1.1 Transport channel parameters

## 6.10.3.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB

|              |                      |           |        |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB    |           | RAB    |
| RLC          | Logical channel type |           | DTCH   |
|              | RLC mode             |           | TM     |
|              | Payload sizes, bit   |           | 576    |
|              | Max data rate, bps   |           | 28 800 |
|              | TrD PDU header, bit  |           | 0      |
| MAC          | MAC header, bit      |           | 0      |
|              | MAC multiplexing     |           | N/A    |
| Layer 1      | TrCH type            |           | DCH    |
|              | TB sizes, bit        |           | 576    |
|              | TFS                  | TF0, bits | 0x576  |

|  |                                                     |            |
|--|-----------------------------------------------------|------------|
|  | TF1, bits                                           | 1x576      |
|  | TTI, ms                                             | 20         |
|  | Coding type                                         | TC         |
|  | CRC, bit                                            | 16         |
|  | Max number of bits/TTI after channel coding         | 3 564      |
|  | Max number of bits/radio frame before rate matching | 891        |
|  | RM attribute                                        | 135 to 175 |

#### 6.10.3.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.16.1.1.3 TFCS

|                                                                                                                          |                                                                          |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                        |
| TFCS                                                                                                                     | (28.8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                          |

#### 6.10.3.4.1.16.1.2 Physical channel parameters

|                                                                                               |                                      |                            |
|-----------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 512 chips                  |
|                                                                                               | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 452 bits                   |
|                                                                                               | TFCl code word                       | 16 bits                    |
|                                                                                               | TPC                                  | 2 bits                     |
|                                                                                               | Puncturing Limit                     | 0.44                       |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                            |

#### 6.10.3.4.1.16.2 Downlink

#### 6.10.3.4.1.16.2.1 Transport channel parameters

#### 6.10.3.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | TM         |
|              | Payload sizes, bit                                  |           | 576        |
|              | Max data rate, bps                                  |           | 28 800     |
|              | TrD PDU header, bit                                 |           | 0          |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 576        |
|              | TFS                                                 | TF0, bits | 0x576      |
|              |                                                     | TF1, bits | 1x576      |
|              | TTI, ms                                             |           | 20         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 3 564      |
|              | Max number of bits/radio frame before rate matching |           | 891        |
|              | RM attribute                                        |           | 135 to 175 |

#### 6.10.3.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.16.2.1.3 TFCS

|           |                                                                          |
|-----------|--------------------------------------------------------------------------|
| TFCS size | 4                                                                        |
| TFCS      | (28.8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

#### 6.10.3.4.1.16.2.2 Physical channel parameters

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 512 chips                    |
|                                                                                               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 472 bits                     |
|                                                                                               | TFCl code word                       | 16 bits                      |
|                                                                                               | Puncturing limit                     | 0.44                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                              |

#### 6.10.3.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.3.4.1.17.1 Uplink

##### 6.10.3.4.1.17.1.1 Transport channel parameters

##### 6.10.3.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | TM         |
|              | Payload sizes, bit                                  |           | 576        |
|              | Max data rate, bps                                  |           | 57 600     |
|              | TrD PDU header, bit                                 |           | 0          |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 576        |
|              | TFS                                                 | TF0, bits | 0x576      |
|              |                                                     | TF1, bits | 1x576      |
|              |                                                     | TF2, bits | 2x576      |
|              |                                                     | TF3, bits | 3x576      |
|              |                                                     | TF4, bits | 4x576      |
|              | TTI, ms                                             |           | 40         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 7 116      |
|              | Max number of bits/radio frame before rate matching |           | 1 779      |
|              | RM attribute                                        |           | 125 to 165 |

##### 6.10.3.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

##### 6.10.3.4.1.17.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 10                                                                                                                                                  |
| TFCS                                                                                                                     | (57.6 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                     |

#### 6.10.3.4.1.17.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCl code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.44                       |

## 6.10.3.4.1.17.2 Downlink

## 6.10.3.4.1.17.2.1 Transport channel parameters

## 6.10.3.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | TM         |
|              | Payload sizes, bit                                  |           | 576        |
|              | Max data rate, bps                                  |           | 57 600     |
|              | TrD PDU header, bit                                 |           | 0          |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 576        |
|              | TFS                                                 | TF0, bits | 0x576      |
|              |                                                     | TF1, bits | 1x576      |
|              |                                                     | TF2, bits | 2x576      |
|              |                                                     | TF3, bits | 3x576      |
|              |                                                     | TF4, bits | 4x576      |
|              | TTI, ms                                             |           | 40         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 7 116      |
|              | Max number of bits/radio frame before rate matching |           | 1 779      |
|              | RM attribute                                        |           | 125 to 165 |

## 6.10.3.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.17.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 10                                                                                                                                                  |
| TFCS                                                                                                                     | (57.6 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                     |

## 6.10.3.4.1.17.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 4 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 960 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.48                         |

## 6.10.3.4.1.18 Void

## 6.10.3.4.1.19 Void

## 6.10.3.4.1.20 Void

## 6.10.3.4.1.21 Void

## 6.10.3.4.1.22 Void

## 6.10.3.4.1.23 Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.23.1 Uplink

## 6.10.3.4.1.23.1.1 Transport channel parameters

## 6.10.3.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

|              |                                                     |           |                    |
|--------------|-----------------------------------------------------|-----------|--------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                |
| RLC          | Logical channel type                                |           | DTCH               |
|              | RLC mode                                            |           | AM                 |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)     |
|              | Max data rate, bps                                  |           | 32 000             |
|              | AMD PDU header, bit                                 |           | 16                 |
| MAC          | MAC header, bit                                     |           | 0                  |
|              | MAC multiplexing                                    |           | N/A                |
| Layer 1      | TrCH type                                           |           | DCH                |
|              | TB sizes, bit                                       |           | 336 (alt. 144)     |
|              | TFS                                                 | TF0, bits | 0x336 (alt. 0x144) |
|              |                                                     | TF1, bits | 1x336 (alt. 1x144) |
|              |                                                     | TF2, bits | 2x336 (alt. 5x144) |
|              | TTI, ms                                             |           | 20                 |
|              | Coding type                                         |           | TC                 |
|              | CRC, bit                                            |           | 16                 |
|              | Max number of bits/TTI after channel coding         |           | 2 124 (alt. 2 412) |
|              | Max number of bits/radio frame before rate matching |           | 1 062 (alt. 1 206) |
|              | RM attribute                                        |           | 135 to 175         |

## 6.10.3.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.23.1.1.3 TFCS

|                                                                                                                          |                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                              |
| TFCS                                                                                                                     | (32 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                |

## 6.10.3.4.1.23.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72 (alt. 0.64)           |

## 6.10.3.4.1.23.2 Downlink

## 6.10.3.4.1.23.2.1 Transport channel parameters

## 6.10.3.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

|              |                      |           |       |
|--------------|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB    |           | RAB   |
| RLC          | Logical channel type |           | DTCH  |
|              | RLC mode             |           | AM    |
|              | Payload sizes, bit   |           | 320   |
|              | Max data rate, bps   |           | 8 000 |
|              | AMD PDU header, bit  |           | 16    |
| MAC          | MAC header, bit      |           | 0     |
|              | MAC multiplexing     |           | N/A   |
| Layer 1      | TrCH type            |           | DCH   |
|              | TB sizes, bit        |           | 336   |
|              | TFS                  | TF0, bits | 0x336 |
|              |                      | TF1, bits | 1x336 |
|              | TTI, ms              |           | 40    |
|              | Coding type          |           | TC    |
|              | CRC, bit             |           | 16    |

|  |                                                     |            |
|--|-----------------------------------------------------|------------|
|  | Max number of bits/TTI after channel coding         | 1 068      |
|  | Max number of bits/radio frame before rate matching | 267        |
|  | RM attribute                                        | 135 to 175 |

#### 6.10.3.4.1.23.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.23.2.1.3 TFCS

|                                                                                                                          |                                                                   |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                 |
| TFCS                                                                                                                     | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                   |

#### 6.10.3.4.1.23.2.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 512 chips                   |
|                                                                                               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 228 bits                    |
|                                                                                               | TFCI code word                       | 16 bits                     |
|                                                                                               | Puncturing limit                     | 0.56                        |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. |                                      |                             |

#### 6.10.3.4.1.23a Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.3.4.1.23a.1 Uplink

##### 6.10.3.4.1.23a.1.1 Transport channel parameters

##### 6.10.3.4.1.23a.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

|              |                                                     |           |                    |
|--------------|-----------------------------------------------------|-----------|--------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                |
| RLC          | Logical channel type                                |           | DTCH               |
|              | RLC mode                                            |           | AM                 |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)     |
|              | Max data rate, bps                                  |           | 8 000              |
|              | AMD PDU header, bit                                 |           | 16                 |
| MAC          | MAC header, bit                                     |           | 0                  |
|              | MAC multiplexing                                    |           | N/A                |
| Layer 1      | TrCH type                                           |           | DCH                |
|              | TB sizes, bit                                       |           | 336 (alt. 144)     |
|              | TFS                                                 | TF0, bits | 0x336 (alt. 0x144) |
|              |                                                     | TF1, bits | 1x336 (alt. 1x144) |
|              |                                                     | TF2, bits | N/A (alt. 5x144)   |
|              | TTI, ms                                             |           | 40 (alt. 80)       |
|              | Coding type                                         |           | TC                 |
|              | CRC, bit                                            |           | 16                 |
|              | Max number of bits/TTI after channel coding         |           | 1 068 (alt. 2 412) |
|              | Max number of bits/radio frame before rate matching |           | 267 (alt. 302)     |
|              | RM attribute                                        |           | 135 to 175         |

##### 6.10.3.4.1.23a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

##### 6.10.3.4.1.23a.1.1.3 TFCS

|                                                                                                                         |                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 4 (alt. 6)                                                                                                                                             |
| TFCS                                                                                                                    | (8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                        |



## 6.10.3.4.1.23a.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                   |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.56 (alt. 0.48)            |

## 6.10.3.4.1.23a.2 Downlink

See clause 6.10.3.4.1.23.2.

## 6.10.3.4.1.23b Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.23b.1 Uplink

## 6.10.3.4.1.23b.1.1 Transport channel parameters

## 6.10.3.4.1.23b.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

|              |                                                     |                    |
|--------------|-----------------------------------------------------|--------------------|
| Higher layer | RAB/Signalling RB                                   | RAB                |
| RLC          | Logical channel type                                | DTCH               |
|              | RLC mode                                            | AM                 |
|              | Payload sizes, bit                                  | 320 (alt. 128)     |
|              | Max data rate, bps                                  | 16 000             |
|              | AMD PDU header, bit                                 | 16                 |
| MAC          | MAC header, bit                                     | 0                  |
|              | MAC multiplexing                                    | N/A                |
| Layer 1      | TrCH type                                           | DCH                |
|              | TB sizes, bit                                       | 336 (alt. 144)     |
|              | TFS                                                 | TF0, bits          |
|              |                                                     | 0x336 (alt. 0x144) |
|              |                                                     | 1x336 (alt. 1x144) |
|              |                                                     | 2x336 (alt. 5x144) |
|              | TTI, ms                                             | 40                 |
|              | Coding type                                         | TC                 |
|              | CRC, bit                                            | 16                 |
|              | Max number of bits/TTI after channel coding         | 2 124 (alt. 2 412) |
|              | Max number of bits/radio frame before rate matching | 531 (alt. 603)     |
|              | RM attribute                                        | 135 to 175         |

## 6.10.3.4.1.23b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.23b.1.1.3 TFCS

|                                                                                                                         |                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 6                                                                                              |
| TFCS                                                                                                                    | (16 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                |

## 6.10.3.4.1.23b.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bit                      |
|             | Puncturing Limit                     | 0.68 (alt. 0.60)           |

## 6.10.3.4.1.23b.2 Downlink

## 6.10.3.4.1.23b.2.1 Transport channel parameters

## 6.10.3.4.1.23b.2.1.1 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

|              |                                                     |            |
|--------------|-----------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                   | RAB        |
| RLC          | Logical channel type                                | DTCH       |
|              | RLC mode                                            | AM         |
|              | Payload sizes, bit                                  | 320        |
|              | Max data rate, bps                                  | 16 000     |
|              | AMD PDU header, bit                                 | 16         |
| MAC          | MAC header, bit                                     | 0          |
|              | MAC multiplexing                                    | N/A        |
| Layer 1      | TrCH type                                           | DCH        |
|              | TB sizes, bit                                       | 336        |
|              | TFS                                                 | TF0, bits  |
|              |                                                     | TF1, bits  |
|              |                                                     | TF2, bits  |
|              | TTI, ms                                             | 40         |
|              | Coding type                                         | TC         |
|              | CRC, bit                                            | 16         |
|              | Max number of bits/TTI after channel coding         | 2 124      |
|              | Max number of bits/radio frame before rate matching | 531        |
|              | RM attribute                                        | 135 to 175 |

## 6.10.3.4.1.23b.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.23b.2.1.3 TFCS

|                                                                                                                         |                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 6                                                                                              |
| TFCS                                                                                                                    | (16 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                |

## 6.10.3.4.1.23b.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCl code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

## 6.10.3.4.1.23c Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.23c.1 Uplink

## 6.10.3.4.1.23c.1.1 Transport channel parameters

## 6.10.3.4.1.23c.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

|              |                      |                |
|--------------|----------------------|----------------|
| Higher layer | RAB/Signalling RB    | RAB            |
| RLC          | Logical channel type | DTCH           |
|              | RLC mode             | AM             |
|              | Payload sizes, bit   | 320 (alt. 128) |
|              | Max data rate, bps   | 32 000         |
|              | AMD PDU header, bit  | 16             |
| MAC          | MAC header, bit      | 0              |
|              | MAC multiplexing     | N/A            |
| Layer 1      | TrCH type            | DCH            |
|              | TB sizes, bit        | 336 (alt. 144) |

|  |                                                     |           |                     |
|--|-----------------------------------------------------|-----------|---------------------|
|  | TFS                                                 | TF0, bits | 0x336 (alt. 0x144)  |
|  |                                                     | TF1, bits | 1x336 (alt. 1x144)  |
|  |                                                     | TF2, bits | 2x336 (alt. 5x144)  |
|  |                                                     | TF3, bits | 3x336 (alt. 7x144)  |
|  |                                                     | TF4, bits | 4x336 (alt. 10x144) |
|  | TTI, ms                                             |           | 40                  |
|  | Coding type                                         |           | TC                  |
|  | CRC, bit                                            |           | 16                  |
|  | Max number of bits/TTI after channel coding         |           | 4 236 (alt. 4 812)  |
|  | Max number of bits/radio frame before rate matching |           | 1 059 (alt. 1 203)  |
|  | RM attribute                                        |           | 135 to 175          |

#### 6.10.3.4.1.23c.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.23c.1.1.3 TFCS

|                                                                                                                         |                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 10                                                                                                                                      |
| TFCS                                                                                                                    | (32 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1),<br>(TF3,TF1), (TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                         |

#### 6.10.3.4.1.23c.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72 (alt. 0.64)           |

#### 6.10.3.4.1.23c.2 Downlink

#### 6.10.3.4.1.23c.2.1 Transport channel parameters

#### 6.10.3.4.1.23c.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | AM         |
|              | Payload sizes, bit                                  |           | 320        |
|              | Max data rate, bps                                  |           | 32 000     |
|              | AMD PDU header, bit                                 |           | 16         |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 336        |
|              | TFS                                                 | TF0, bits | 0x336      |
|              |                                                     | TF1, bits | 1x336      |
|              |                                                     | TF2, bits | 2x336      |
|              |                                                     | TF3, bits | 3x336      |
|              |                                                     | TF4, bits | 4x336      |
|              | TTI, ms                                             |           | 40         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 4 236      |
|              | Max number of bits/radio frame before rate matching |           | 1 059      |
|              | RM attribute                                        |           | 135 to 175 |

#### 6.10.3.4.1.23c.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.23c.2.1.3 TFCS

|                                                                                                                         |                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 10                                                                                                                                      |
| TFCS                                                                                                                    | (32 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1),<br>(TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                         |

#### 6.10.3.4.1.23c.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 3 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 716                          |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.60                         |

6.10.3.4.1.23d Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.3.4.1.23d.1 Uplink

##### 6.10.3.4.1.23d.1.1 Transport channel parameters

##### 6.10.3.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

|              |                                                     |           |                    |
|--------------|-----------------------------------------------------|-----------|--------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                |
| RLC          | Logical channel type                                |           | DTCH               |
|              | RLC mode                                            |           | AM                 |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)     |
|              | Max data rate, bps                                  |           | 32 000             |
|              | AMD PDU header, bit                                 |           | 16                 |
| MAC          | MAC header, bit                                     |           | 0                  |
|              | MAC multiplexing                                    |           | N/A                |
| Layer 1      | TrCH type                                           |           | DCH                |
|              | TB sizes, bit                                       |           | 336 (alt. 144)     |
|              | TFS                                                 | TF0, bits | 0x336 (alt. 0x144) |
|              |                                                     | TF1, bits | 1x336 (alt. 1x144) |
|              |                                                     | TF2, bits | 2x336 (alt. 5x144) |
|              | TTI, ms                                             |           | 20                 |
|              | Coding type                                         |           | TC                 |
|              | CRC, bit                                            |           | 16                 |
|              | Max number of bits/TTI after channel coding         |           | 2 124 (alt. 2 412) |
|              | Max number of bits/radio frame before rate matching |           | 1 062 (alt. 1 206) |
|              | RM attribute                                        |           | 135 to 175         |

##### 6.10.3.4.1.23d.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.23d.1.1.3 TFCS

|                                                                                                                         |                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 6                                                                                        |
| TFCS                                                                                                                    | (32 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                          |

#### 6.10.3.4.1.23d.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |

|  |                  |                  |
|--|------------------|------------------|
|  | TFCI code word   | 16 bits          |
|  | TPC              | 2 bits           |
|  | Puncturing Limit | 0.72 (alt. 0.64) |

## 6.10.3.4.1.23d.2 Downlink

## 6.10.3.4.1.23d.2.1 Transport channel parameters

## 6.10.3.4.1.23d.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

|              |                                                     |            |
|--------------|-----------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                   | RAB        |
| RLC          | Logical channel type                                | DTCH       |
|              | RLC mode                                            | AM         |
|              | Payload sizes, bit                                  | 320        |
|              | Max data rate, bps                                  | 32 000     |
|              | AMD PDU header, bit                                 | 16         |
| MAC          | MAC header, bit                                     | 0          |
|              | MAC multiplexing                                    | N/A        |
| Layer 1      | TrCH type                                           | DCH        |
|              | TB sizes, bit                                       | 336        |
|              | TFS                                                 | TF0, bits  |
|              |                                                     | 1x336      |
|              |                                                     | 2x336      |
|              | TTI, ms                                             | 20         |
|              | Coding type                                         | TC         |
|              | CRC, bit                                            | 16         |
|              | Max number of bits/TTI after channel coding         | 2 124      |
|              | Max number of bits/radio frame before rate matching | 1 062      |
|              | RM attribute                                        | 135 to 175 |

## 6.10.3.4.1.23d.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.23d.2.1.3 TFCS

|                                                                                                                         |                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 6                                                                                        |
| TFCS                                                                                                                    | (32 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                          |

## 6.10.3.4.1.23d.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 3 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 716 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

## 6.10.3.4.1.24 Void

## 6.10.3.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.25.1 Uplink

See clause 6.10.3.4.1.23.1.

## 6.10.3.4.1.25.2 Downlink

## 6.10.3.4.1.25.2.1 Transport channel parameters

## 6.10.3.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

|              |                                                     |            |
|--------------|-----------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                   | RAB        |
| RLC          | Logical channel type                                | DTCH       |
|              | RLC mode                                            | AM         |
|              | Payload sizes, bit                                  | 320        |
|              | Max data rate, bps                                  | 64 000     |
|              | AMD PDU header, bit                                 | 16         |
| MAC          | MAC header, bit                                     | 0          |
|              | MAC multiplexing                                    | N/A        |
| Layer 1      | TrCH type                                           | DCH        |
|              | TB sizes, bit                                       | 336        |
|              | TFS                                                 | TF0, bits  |
|              |                                                     | TF1, bits  |
|              |                                                     | TF2, bits  |
|              |                                                     | TF3, bits  |
|              |                                                     | TF4, bits  |
|              | TTI, ms                                             | 20         |
|              | Coding type                                         | TC         |
|              | CRC, bit                                            | 16         |
|              | Max number of bits/TTI after channel coding         | 4 236      |
|              | Max number of bits/radio frame before rate matching | 2 118      |
|              | RM attribute                                        | 130 to 170 |

#### 6.10.3.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.25.2.1.3 TFCS

|           |                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                |
| TFCS      | (64 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                |

#### 6.10.3.4.1.25.2.2 Physical channel parameters

| DPCH Downlink                        | Physical Configuration 1                                       | Physical Configuration 2     |
|--------------------------------------|----------------------------------------------------------------|------------------------------|
| Midamble                             | 512 chips                                                      | 512 chips                    |
| Codes and time slots                 | SF16 x 3 codes x 1 time slot<br>+ SF16 x 2 codes x 1 time slot | SF16 x 9 codes x 1 time slot |
| Max. Number of data bits/radio frame | 1 204 bits                                                     | 2 180 bits                   |
| TFCI code word                       | 16 bits                                                        | 16 bits                      |
| Puncturing limit                     | 0.52                                                           | 0.96                         |

#### 6.10.3.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.3.4.1.26.1 Uplink

#### 6.10.3.4.1.26.1.1 Transport channel parameters

#### 6.10.3.4.1.26.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

|              |                      |                |
|--------------|----------------------|----------------|
| Higher layer | RAB/Signalling RB    | RAB            |
| RLC          | Logical channel type | DTCH           |
|              | RLC mode             | AM             |
|              | Payload sizes, bit   | 320 (alt. 128) |
|              | Max data rate, bps   | 64 000         |
|              | AMD PDU header, bit  | 16             |
| MAC          | MAC header, bit      | 0              |
|              | MAC multiplexing     | N/A            |
| Layer 1      | TrCH type            | DCH            |
|              | TB sizes, bit        | 336 (alt. 144) |

|  |                                                     |           |                     |
|--|-----------------------------------------------------|-----------|---------------------|
|  | TFS                                                 | TF0, bits | 0x336 (alt. 0x144)  |
|  |                                                     | TF1, bits | 1x336 (alt. 1x144)  |
|  |                                                     | TF2, bits | 2x336 (alt. 3x144)  |
|  |                                                     | TF3, bits | 3x336 (alt. 7x144)  |
|  |                                                     | TF4, bits | 4x336 (alt. 10x144) |
|  | TTI, ms                                             |           | 20                  |
|  | Coding type                                         |           | TC                  |
|  | CRC, bit                                            |           | 16                  |
|  | Max number of bits/TTI after channel coding         |           | 4 236 (alt. 4 812)  |
|  | Max number of bits/radio frame before rate matching |           | 2 118 (alt. 2 406)  |
|  | RM attribute                                        |           | 130 to 170          |

#### 6.10.3.4.1.26.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.26.1.1.3 TFCS

|           |                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                |
| TFCS      | (64 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

#### 6.10.3.4.1.26.1.2 Physical channel parameters

| DPCH Uplink |                                      | Physical Configuration 1                                    | Physical Configuration 2                                   |
|-------------|--------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|
|             | Midamble                             | 512 chips                                                   | 512 chips                                                  |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot +<br>SF4 x 1 code x 1 time slot | SF2 x 1 code x 1 time slot +<br>SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 1148 bits                                                   | 2 784 bits                                                 |
|             | TFCI code word                       | 16 bits                                                     | 16 bits                                                    |
|             | TPC                                  | 2 bits                                                      | 2 bits                                                     |
|             | Puncturing Limit                     | 0.48 (alt. 0.44)                                            | 1                                                          |

#### 6.10.3.4.1.26.2 Downlink

See clause 6.10.3.4.1.25.2.

#### 6.10.3.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.3.4.1.27.1 Uplink

See clause 6.10.3.4.1.26.1.

##### 6.10.3.4.1.27.2 Downlink

#### 6.10.3.4.1.27.2.1 Transport channel parameters

##### 6.10.3.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

|              |                      |           |         |
|--------------|----------------------|-----------|---------|
| Higher layer | RAB/Signalling RB    |           | RAB     |
| RLC          | Logical channel type |           | DTCH    |
|              | RLC mode             |           | AM      |
|              | Payload sizes, bit   |           | 320     |
|              | Max data rate, bps   |           | 128 000 |
|              | AMD PDU header, bit  |           | 16      |
| MAC          | MAC header, bit      |           | 0       |
|              | MAC multiplexing     |           | N/A     |
| Layer 1      | TrCH type            |           | DCH     |
|              | TB sizes, bit        |           | 336     |
|              | TFS                  | TF0, bits | 0x336   |
|              |                      | TF1, bits | 1x336   |
|              |                      | TF2, bits | 2x336   |

|  |                                                     |           |            |
|--|-----------------------------------------------------|-----------|------------|
|  |                                                     | TF3, bits | 4x336      |
|  |                                                     | TF4, bits | 8x336      |
|  | TTI, ms                                             |           | 20         |
|  | Coding type                                         |           | TC         |
|  | CRC, bit                                            |           | 16         |
|  | Max number of bits/TTI after channel coding         |           | 8 460      |
|  | Max number of bits/radio frame before rate matching |           | 4 230      |
|  | RM attribute                                        |           | 120 to 160 |

#### 6.10.3.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.27.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 10                                                                                                                                                 |
| TFCS                                                                                                                     | (128 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                    |

#### 6.10.3.4.1.27.2.2 Physical channel parameters

| DPCH Downlink |                                      | Physical Configuration 1     | Physical Configuration 2                                         |
|---------------|--------------------------------------|------------------------------|------------------------------------------------------------------|
|               | Midamble                             | 256 chips                    | 256 chips                                                        |
|               | Codes and time slots                 | SF16 x 8 codes x 1 time slot | SF16 x 4 codes x 2 time slots<br>+ SF16 x 3 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 2 192 bits                   | 3848 bits                                                        |
|               | TFCI code word                       | 16 bits                      | 16 bits                                                          |
|               | Puncturing limit                     | 0.48                         | 0.84                                                             |

#### 6.10.3.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.3.4.1.28.1 Uplink

##### 6.10.3.4.1.28.1.1 Transport channel parameters

##### 6.10.3.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

|              |                                                     |           |                     |
|--------------|-----------------------------------------------------|-----------|---------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                 |
| RLC          | Logical channel type                                |           | DTCH                |
|              | RLC mode                                            |           | AM                  |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)      |
|              | Max data rate, bps                                  |           | 128 000             |
|              | AMD PDU header, bit                                 |           | 16                  |
| MAC          | MAC header, bit                                     |           | 0                   |
|              | MAC multiplexing                                    |           | N/A                 |
| Layer 1      | TrCH type                                           |           | DCH                 |
|              | TB sizes, bit                                       |           | 336 (alt. 144)      |
|              | TFS                                                 | TF0, bits | 0x336 (alt. 0x144)  |
|              |                                                     | TF1, bits | 1x336 (alt. 1x144)  |
|              |                                                     | TF2, bits | 2x336 (alt. 7x144)  |
|              |                                                     | TF3, bits | 4x336 (alt. 14x144) |
|              |                                                     | TF4, bits | 8x336 (alt. 20x144) |
|              | TTI, ms                                             |           | 20                  |
|              | Coding type                                         |           | TC                  |
|              | CRC, bit                                            |           | 16                  |
|              | Max number of bits/TTI after channel coding         |           | 8 460 ( alt. 9 612) |
|              | Max number of bits/radio frame before rate matching |           | 4 230 (alt. 4 806)  |
|              | RM attribute                                        |           | 120 to 160          |



## 6.10.3.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.28.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 9 (alt.10)                                                                                                                                                                                                                                                                 |
| TFCS                                                                                                                     | (128 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                            |

## 6.10.3.4.1.28.1.2 Physical channel parameters

| DPCCH Uplink                         | Physical Configuration 1  | Physical Configuration 2                                   |
|--------------------------------------|---------------------------|------------------------------------------------------------|
| Midamble                             | 256 chips                 | 256 chips                                                  |
| Codes and time slots                 | SF2 x 1 code x 1 timeslot | SF2 x 1 code x 2 timeslots +<br>SF4 x 1 code x 1 time slot |
| Max. Number of data bits/radio frame | 2 064 bits                | 5 376 bits                                                 |
| TFCI code word                       | 16 bits                   | 16 bits                                                    |
| TPC                                  | 2 bits                    | 2 bits                                                     |
| Puncturing Limit                     | 0.44 (alt. 0.40)          | 1                                                          |

## 6.10.3.4.1.28.2 Downlink

See clause 6.10.3.4.1.27.2.

## 6.10.3.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.10.3.4.1.29.1 Uplink

See clause 6.10.3.4.1.26.1.

## 6.10.3.4.1.29.2 Downlink

## 6.10.3.4.1.29.2.1 Transport channel parameters

## 6.10.3.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | AM         |
|              | Payload sizes, bit                                  |           | 320        |
|              | Max data rate, bps                                  |           | 144 000    |
|              | AMD PDU header, bit                                 |           | 16         |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 336        |
|              | TFS                                                 | TF0, bits | 0x336      |
|              |                                                     | TF1, bits | 1x336      |
|              |                                                     | TF2, bits | 2x336      |
|              |                                                     | TF3, bits | 4x336      |
|              |                                                     | TF4, bits | 8x336      |
|              |                                                     | TF5, bits | 9x336      |
|              | TTI, ms                                             |           | 20         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 9 516      |
|              | Max number of bits/radio frame before rate matching |           | 4 758      |
|              | RM attribute                                        |           | 140 to 180 |

## 6.10.3.4.1.29.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.29.2.1.3 TFCS

|           |                                                                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                        |
| TFCS      | (144 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                        |

## 6.10.3.4.1.29.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                    |
|               | Codes and time slots                 | SF16 x 9 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 2468 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.48                         |

## 6.10.3.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.10.3.4.1.30.1 Uplink

## 6.10.3.4.1.30.1.1 Transport channel parameters

## 6.10.3.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB

|              |                                                     |           |                     |
|--------------|-----------------------------------------------------|-----------|---------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                 |
| RLC          | Logical channel type                                |           | DTCH                |
|              | RLC mode                                            |           | AM                  |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)      |
|              | Max data rate, bps                                  |           | 144 000             |
|              | AMD PDU header, bit                                 |           | 16                  |
| MAC          | MAC header, bit                                     |           | 0                   |
|              | MAC multiplexing                                    |           | N/A                 |
| Layer 1      | TrCH type                                           |           | DCH                 |
|              | TB sizes, bit                                       |           | 336 (alt. 144)      |
|              | TFS                                                 | TF0, bits | 0x336 (alt. 0x144)  |
|              |                                                     | TF1, bits | 1x336 (alt. 1x144)  |
|              |                                                     | TF2, bits | 2x336 (alt. 10x144) |
|              |                                                     | TF3, bits | 4x336 (alt. 20x144) |
|              |                                                     | TF4, bits | 8x336 (alt. 30x144) |
|              |                                                     | TF5, bits | 9x336 (alt. 45x144) |
|              | TTI, ms                                             |           | 20 (alt. 40)        |
|              | Coding type                                         |           | TC                  |
|              | CRC, bit                                            |           | 16                  |
|              | Max number of bits/TTI after channel coding         |           | 9 516 (alt. 21 624) |
|              | Max number of bits/radio frame before rate matching |           | 4 758 (alt. 5 406)  |
|              | RM attribute                                        |           | 140 to 180          |

## 6.10.3.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.30.1.1.3 TFCS

|           |                                                                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                        |
| TFCS      | (144 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                        |

## 6.10.3.4.1.30.1.2 Physical channel parameters

|             |                                      |                                                         |
|-------------|--------------------------------------|---------------------------------------------------------|
| DPCH Uplink | Midamble                             | 256 chips                                               |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot + SF2 x 1 codex 1 time slot |
|             | Max. Number of data bits/radio frame | 2340 bits                                               |
|             | TFCl code word                       | 16 bits                                                 |
|             | TPC                                  | 2 bits                                                  |
|             | Puncturing Limit                     | 0.44 (alt. 0.40)                                        |

## 6.10.3.4.1.30.2 Downlink

See clause 6.10.3.4.1.29.2.

## 6.10.3.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.10.3.4.1.31.1 Uplink

See clause 6.10.3.4.1.26.1.

## 6.10.3.4.1.31.2 Downlink

## 6.10.3.4.1.31.2.1 Transport channel parameters

## 6.10.3.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

|              |                                                     |           |                     |
|--------------|-----------------------------------------------------|-----------|---------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                 |
| RLC          | Logical channel type                                |           | DTCH                |
|              | RLC mode                                            |           | AM                  |
|              | Payload sizes, bit                                  |           | 320                 |
|              | Max data rate, bps                                  |           | 384 000             |
|              | AMD PDU header, bit                                 |           | 16                  |
| MAC          | MAC header, bit                                     |           | 0                   |
|              | MAC multiplexing                                    |           | N/A                 |
| Layer 1      | TrCH type                                           |           | DCH                 |
|              | TB sizes, bit                                       |           | 336                 |
|              | TFS                                                 | TF0, bits | 0x336               |
|              |                                                     | TF1, bits | 1x336               |
|              |                                                     | TF2, bits | 2x336               |
|              |                                                     | TF3, bits | 4x336               |
|              |                                                     | TF4, bits | 8x336               |
|              |                                                     | TF5, bits | N/A (alt. 12x336)   |
|              |                                                     | TF6, bits | N/A (alt. 16x336)   |
|              | TTI, ms                                             |           | 10 (alt. 20)        |
|              | Coding type                                         |           | TC                  |
|              | CRC, bit                                            |           | 16                  |
|              | Max number of bits/TTI after channel coding         |           | 8 460 (alt. 16 920) |
|              | Max number of bits/radio frame before rate matching |           | 8 460 (alt. 8 460)  |
|              | RM attribute                                        |           | 135 to 175          |

## 6.10.3.4.1.31.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.31.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 10 (alt.14)                                                                                                                                                                                                                                                                                                                           |
| TFCS                                                                                                                     | (256 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                       |

## 6.10.3.4.1.31.2.2 Physical channel parameters

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                     |
|               | Codes and time slots                 | SF16 x 8 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 4 400 bits                    |
|               | TFCI code word                       | 16 bits                       |
|               | Puncturing limit                     | 0.48                          |

## 6.10.3.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.10.3.4.1.32.1 Uplink

See clause 6.10.3.4.1.26.1.

## 6.10.3.4.1.32.2 Downlink

## 6.10.3.4.1.32.2.1 Transport channel parameters

## 6.10.3.4.1.32.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

|              |                                                     |           |                      |
|--------------|-----------------------------------------------------|-----------|----------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                  |
| RLC          | Logical channel type                                |           | DTCH                 |
|              | RLC mode                                            |           | AM                   |
|              | Payload sizes, bit                                  |           | 320                  |
|              | Max data rate, bps                                  |           | 384 000              |
|              | AMD PDU header, bit                                 |           | 16                   |
| MAC          | MAC header, bit                                     |           | 0                    |
|              | MAC multiplexing                                    |           | N/A                  |
| Layer 1      | TrCH type                                           |           | DCH                  |
|              | TB sizes, bit                                       |           | 336                  |
|              | TFS                                                 | TF0, bits | 0x336                |
|              |                                                     | TF1, bits | 1x336                |
|              |                                                     | TF2, bits | 2x336                |
|              |                                                     | TF3, bits | 4x336                |
|              |                                                     | TF4, bits | 8x336                |
|              |                                                     | TF5, bits | 12x336               |
|              |                                                     | TF6, bits | N/A (alt. 16x336)    |
|              |                                                     | TF7, bits | N/A (alt. 20x336)    |
|              |                                                     | TF8, bits | N/A (alt. 24x336)    |
|              | TTI, ms                                             |           | 10 (alt. 20)         |
|              | Coding type                                         |           | TC                   |
|              | CRC, bit                                            |           | 16                   |
|              | Max number of bits/TTI after channel coding         |           | 12 684 (alt. 25 368) |
|              | Max number of bits/radio frame before rate matching |           | 12 684 (alt. 12 684) |
|              | RM attribute                                        |           | 110 to 150           |

## 6.10.3.4.1.32.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.32.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 12 (alt.18)                                                                                                                                                                                                                                                                                                                                                                                                   |
| TFCS                                                                                                                     | (384 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                               |

## 6.10.3.4.1.32.2.2 Physical channel parameters

| DPCH Downlink |                                      | Physical Configuration 1      | Physical Configuration 2                                                                              |
|---------------|--------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------|
|               | Midamble                             | 256 chips                     | 256 chips                                                                                             |
|               | Codes and time slots                 | SF16 x 8 codes x 3 time slots | SF16 x 6 codes x 4 time slots +<br>SF16 x 4 codes x 1 time slot<br>(alt. SF1 x 1 code x 3 time slots) |
|               | Max. Number of data bits/radio frame | 6 608 bits                    | 7 712 bits (alt. 13232 bits)                                                                          |
|               | TFCI code word                       | 16 bits                       | 16 bits                                                                                               |
|               | Puncturing Limit                     | 0.48                          | 0.60 (alt. 1)                                                                                         |

6.10.3.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.33.1 Uplink

See clause 6.10.3.4.1.28.1.

6.10.3.4.1.33.2 Downlink

See clause 6.10.3.4.1.32.2.

6.10.3.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.34.1 Uplink

6.10.3.4.1.34.1.1 Transport channel parameters

6.10.3.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

|              |                                                     |           |                      |
|--------------|-----------------------------------------------------|-----------|----------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                  |
| RLC          | Logical channel type                                |           | DTCH                 |
|              | RLC mode                                            |           | AM                   |
|              | Payload sizes, bit                                  |           | 320                  |
|              | Max data rate, bps                                  |           | 384 000              |
|              | AMD PDU header, bit                                 |           | 16                   |
| MAC          | MAC header, bit                                     |           | 0                    |
|              | MAC multiplexing                                    |           | N/A                  |
| Layer 1      | TrCH type                                           |           | DCH                  |
|              | TB sizes, bit                                       |           | 336                  |
|              | TFS                                                 | TF0, bits | 0x336                |
|              |                                                     | TF1, bits | 1x336                |
|              |                                                     | TF2, bits | 2x336                |
|              |                                                     | TF3, bits | 4x336                |
|              |                                                     | TF4, bits | 8x336                |
|              |                                                     | TF5, bits | 12x336               |
|              |                                                     | TF6, bits | N/A (alt. 16x336)    |
|              |                                                     | TF7, bits | N/A (alt. 20x336)    |
|              |                                                     | TF8, bits | N/A (alt. 24x336)    |
|              | TTI, ms                                             |           | 10 (alt. 20)         |
|              | Coding type                                         |           | TC                   |
|              | CRC, bit                                            |           | 16                   |
|              | Max number of bits/TTI after channel coding         |           | 12 684 (alt. 25 368) |
|              | Max number of bits/radio frame before rate matching |           | 12 684               |
|              | RM attribute                                        |           | 110 to 150           |

6.10.3.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.34.1.1.3 TFCS

|           |             |
|-----------|-------------|
| TFCS size | 12 (alt.18) |
|-----------|-------------|

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS                                                                                                                     | (384 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                   |

#### 6.10.3.4.1.34.1.2 Physical channel parameters

| DPCH Uplink                          | Physical Configuration 1    | Physical Configuration 2                                                                                            |
|--------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------|
| Midamble                             | 256 chips                   | 256 chips                                                                                                           |
| Codes and time slots                 | SF2 x 1 code x 3 time slots | SF2 x 1 code x 5 timeslots +<br>SF4 x 1 code x 2 timeslots<br>(alt. {SF2 x 1 code + SF4 x 1<br>code} x 4 timeslots) |
| Max. Number of data bits/radio frame | 6 480 bits                  | 13 104 bits                                                                                                         |
| TFCI code word                       | 16 bits                     | 16 bits                                                                                                             |
| TPC                                  | 2 bits                      | 2 bits                                                                                                              |
| Puncturing Limit                     | 0.48                        | 1                                                                                                                   |

#### 6.10.3.4.1.34.2 Downlink

See clause 6.10.3.4.1.32.2.

6.10.3.4.1.35 Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.3.4.1.35.1 Uplink

##### 6.10.3.4.1.35.1.1 Transport channel parameters

See clause 6.10.3.4.1.26.1.1.

##### 6.10.3.4.1.35.1.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 256 chips                  |
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.88 (alt. 0.80)           |

#### 6.10.3.4.1.35.2 Downlink

##### 6.10.3.4.1.35.2.1 Transport channel parameters

##### 6.10.3.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

|              |                      |           |           |
|--------------|----------------------|-----------|-----------|
| Higher layer | RAB/Signalling RB    |           | RAB       |
| RLC          | Logical channel type |           | DTCH      |
|              | RLC mode             |           | AM        |
|              | Payload sizes, bit   |           | 640       |
|              | Max data rate, bps   |           | 2 048 000 |
|              | AMD PDU header, bit  |           | 16        |
| MAC          | MAC header, bit      |           | 0         |
|              | MAC multiplexing     |           | N/A       |
| Layer 1      | TrCH type            |           | DCH       |
|              | TB sizes, bit        |           | 656       |
|              | TFS                  | TF0, bits | 0x656     |
|              |                      | TF1, bits | 1x656     |
|              |                      | TF2, bits | 2x656     |

| Higher layer | RAB/Signalling RB                                   | RAB                   |
|--------------|-----------------------------------------------------|-----------------------|
|              | TF3, bits                                           | 4x656                 |
|              | TF4, bits                                           | 8x656                 |
|              | TF5, bits                                           | 12x656                |
|              | TF6, bits                                           | 16x656                |
|              | TF7, bits                                           | 20x656                |
|              | TF8, bits                                           | 24x656                |
|              | TF9, bits                                           | 28x656                |
|              | TF10, bits                                          | 31x656 (alt. 32x656)  |
|              | TF11, bits                                          | N/A (alt. 36x656)     |
|              | TF12, bits                                          | N/A (alt. 40x656)     |
|              | TF13, bits                                          | N/A (alt. 44x656)     |
|              | TF14, bits                                          | N/A (alt. 48x656)     |
|              | TF15, bits                                          | N/A (alt. 52x656)     |
|              | TF16, bits                                          | N/A (alt. 56x656)     |
|              | TF17, bits                                          | N/A (alt. 60x656)     |
|              | TF18, bits                                          | N/A (alt. 64x656)     |
|              | TTI, ms                                             | 10 (alt. 20)          |
|              | Coding type                                         | TC                    |
|              | CRC, bit                                            | 16                    |
|              | Max number of bits/TTI after channel coding         | 62 565 (alt. 129 141) |
|              | Max number of bits/radio frame before rate matching | 62 565 (alt. 64 571)  |
|              | RM attribute                                        | 130 to 170            |

#### 6.10.3.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.35.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 21 (alt.38)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| TFCS                                                                                                                     | (2 048 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0), (TF9, TF0), (TF10, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1), (TF9, TF1)<br>(alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0),<br>(TF16, TF0), (TF17, TF0), (TF18, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, TF1),<br>(TF16, TF1), (TF17, TF1), (TF18, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

#### 6.10.3.4.1.35.2.2 Physical channel parameters

| DPCH Downlink |                                      | Physical Configuration 1     | Physical Configuration 2                                          |
|---------------|--------------------------------------|------------------------------|-------------------------------------------------------------------|
|               | Midamble                             | 256 chips                    | 256 chips                                                         |
|               | Codes and time slots                 | SF1 x 1 code x 11 time slots | SF16 x 13 codes x 4 time slots +<br>SF16 x 12 codes x 7 time slot |
|               | Max. Number of data bits/radio frame | 48 560 bits (alt. 48 544)    | 37 520 bits (alt. 37 504)                                         |
|               | TFCI code word                       | 16 bits (alt. 32 bits)       | 16 bits (alt. 32 bits)                                            |
|               | Puncturing limit                     | 0.76 (alt.0.72)              | 0.56                                                              |

6.10.3.4.1.36 Void

6.10.3.4.1.37 Void

6.10.3.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38.1 Uplink

## 6.10.3.4.1.38.1.1 Transport channel parameters

## 6.10.3.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

## 6.10.3.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

## 6.10.3.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.38.1.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## 6.10.3.4.1.38.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.52 (alt. 0.48)           |

## 6.10.3.4.1.38.2 Downlink

## 6.10.3.4.1.38.2.1 Transport channel parameters

## 6.10.3.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

## 6.10.3.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

## 6.10.3.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.

## 6.10.3.4.1.38.2.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 12                                                                                                                                                                                                                                                                                                                                                                                                             |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                |

## 6.10.3.4.1.38.2.2 Physical channel parameters

|               |                      |                              |
|---------------|----------------------|------------------------------|
| DPCH Downlink | Midamble             | 512 chips                    |
|               | Codes and time slots | SF16 x 2 codes x 1 time slot |



|  |                                      |          |
|--|--------------------------------------|----------|
|  | Max. Number of data bits/radio frame | 472 bits |
|  | TFCl code word                       | 16 bits  |
|  | Puncturing limit                     | 0.52     |

6.10.3.4.1.38a Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38a.1 Uplink

6.10.3.4.1.38a.1.1 Transport channel parameters

6.10.3.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

|              |                                                     |           |                   |
|--------------|-----------------------------------------------------|-----------|-------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB               |
| RLC          | Logical channel type                                |           | DTCH              |
|              | RLC mode                                            |           | AM                |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)    |
|              | Max data rate, bps                                  |           | 0                 |
|              | AMD PDU header, bit                                 |           | 16                |
| MAC          | MAC header, bit                                     |           | 0                 |
|              | MAC multiplexing                                    |           | N/A               |
| Layer 1      | TrCH type                                           |           | DCH               |
|              | TB sizes, bit                                       |           | 336 (alt. 144)    |
|              | TFS                                                 | TF0, bits | 0x336 (alt 0x144) |
|              | TTI, ms                                             |           | 20                |
|              | Coding type                                         |           | TC                |
|              | CRC, bit                                            |           | 16                |
|              | Max number of bits/TTI after channel coding         |           | 0                 |
|              | Max number of bits/radio frame before rate matching |           | 0                 |
|              | RM attribute                                        |           | 130 to 170        |

6.10.3.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38a.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 6                                                                                                                                                                                                              |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                |

6.10.3.4.1.38a.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCl code word                       | 16 bits                    |
|             | TPC                                  | 2 bit                      |
|             | Puncturing Limit                     | 0.68                       |

6.10.3.4.1.38a.2 Downlink

6.10.3.4.1.38a.2.1 Transport channel parameters

6.10.3.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

## 6.10.3.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

|              |                                                     |            |
|--------------|-----------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                   | RAB        |
| RLC          | Logical channel type                                | DTCH       |
|              | RLC mode                                            | AM         |
|              | Payload sizes, bit                                  | 320        |
|              | Max data rate, bps                                  | 0          |
|              | AMD PDU header, bit                                 | 16         |
| MAC          | MAC header, bit                                     | 0          |
|              | MAC multiplexing                                    | N/A        |
| Layer 1      | TrCH type                                           | DCH        |
|              | TB sizes, bit                                       | 336        |
|              | TFS TF0, bits                                       | 0x336      |
|              | TTI, ms                                             | 20         |
|              | Coding type                                         | TC         |
|              | CRC, bit                                            | 16         |
|              | Max number of bits/TTI after channel coding         | 0          |
|              | Max number of bits/radio frame before rate matching | 0          |
|              | RM attribute                                        | 130 to 170 |

## 6.10.3.4.1.38a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

## 6.10.3.4.1.38a.2.1.4 TFCS

|           |                                                                                                                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                                              |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                              |

## 6.10.3.4.1.38a.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCl code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

## 6.10.3.4.1.38b Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.38b.1 Uplink

## 6.10.3.4.1.38b.1.1 Transport channel parameters

## 6.10.3.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

## 6.10.3.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

## 6.10.3.4.1.38b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.38b.1.1.4 TFCS

|           |                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12 (alt. 17)                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), |

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                         | (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1)<br>(alt.<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1)<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

#### 6.10.3.4.1.38b.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.48 (alt. 0.56)           |

#### 6.10.3.4.1.38b.2 Downlink

##### 6.10.3.4.1.38b.2.1 Transport channel parameters

##### 6.10.3.4.1.38b.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

##### 6.10.3.4.1.38b.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

##### 6.10.3.4.1.38b.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.10.3.4.1.38b.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                                                                                                                                                              |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                 |

#### 6.10.3.4.1.38b.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.52                         |

#### 6.10.3.4.1.38c Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.3.4.1.38c.1 Uplink

##### 6.10.3.4.1.38c.1.1 Transport channel parameters

##### 6.10.3.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

#### 6.10.3.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.1.1.1.

#### 6.10.3.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.38c.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 18 (alt. 17)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1)<br>(alt.<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### 6.10.3.4.1.38c.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.52 (alt. 0.52)           |

#### 6.10.3.4.1.38c.2 Downlink

##### 6.10.3.4.1.38c.2.1 Transport channel parameters

##### 6.10.3.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

##### 6.10.3.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

##### 6.10.3.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.38c.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                |

## 6.10.3.4.1.38c.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 4 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 960                          |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

6.10.3.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38d.1 Uplink

6.10.3.4.1.38d.1.1 Transport channel parameters

6.10.3.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                   |           | RAB                            | RAB            |
|--------------|-----------------------------------------------------|-----------|--------------------------------|----------------|
| RLC          | Logical channel type                                |           | DTCH                           | DTCH           |
|              | RLC mode                                            |           | AM                             | AM             |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)                 | 320 (alt. 128) |
|              | Max data rate, bps                                  |           | 64 000                         | 64 000         |
|              | AMD PDU header, bit                                 |           | 16                             | 16             |
| MAC          | MAC header, bit                                     |           | 4                              | 4              |
|              | MAC multiplexing                                    |           | 2 logical channel multiplexing |                |
| Layer 1      | TrCH type                                           |           | DCH                            |                |
|              | TB sizes, bit                                       |           | 340 (alt. 148)                 |                |
|              | TFS                                                 | TF0, bits | 0x340 (alt 0x148)              |                |
|              |                                                     | TF1, bits | 1x340 (alt 1x148)              |                |
|              |                                                     | TF2, bits | 2x340 (alt 3x148)              |                |
|              |                                                     | TF3, bits | 3x340 (alt 7x148)              |                |
|              |                                                     | TF4, bits | 4x340 (alt 10x148)             |                |
|              | TTI, ms                                             |           | 20                             |                |
|              | Coding type                                         |           | TC                             |                |
|              | CRC, bit                                            |           | 16                             |                |
|              | Max number of bits/TTI after channel coding         |           | 4 284 (alt. 4 932)             |                |
|              | Max number of bits/radio frame before rate matching |           | 2 142 (alt. 2 466)             |                |
|              | RM attribute                                        |           | 130 to 170                     |                |

6.10.3.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38d.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 6.10.3.4.1.38d.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 256 chips                  |
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72 (alt. 0.64)           |

## 6.10.3.4.1.38d.2 Downlink

## 6.10.3.4.1.38d.2.1 Transport channel parameters

## 6.10.3.4.1.38d.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

## 6.10.3.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                   | RAB                            | RAB    |
|--------------|-----------------------------------------------------|--------------------------------|--------|
| RLC          | Logical channel type                                | DTCH                           | DTCH   |
|              | RLC mode                                            | AM                             | AM     |
|              | Payload sizes, bit                                  | 320                            | 320    |
|              | Max data rate, bps                                  | 64 000                         | 64 000 |
|              | AMD PDU header, bit                                 | 16                             | 16     |
| MAC          | MAC header, bit                                     | 4                              | 4      |
|              | MAC multiplexing                                    | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                           | DCH                            |        |
|              | TB sizes, bit                                       | 340                            |        |
|              | TFS                                                 | 0x340                          |        |
|              |                                                     | 1x340                          |        |
|              |                                                     | 2x340                          |        |
|              |                                                     | 3x340                          |        |
|              |                                                     | 4x340                          |        |
|              | TTI, ms                                             | 20                             |        |
|              | Coding type                                         | TC                             |        |
|              | CRC, bit                                            | 16                             |        |
|              | Max number of bits/TTI after channel coding         | 4 284                          |        |
|              | Max number of bits/radio frame before rate matching | 2 142                          |        |
|              | RM attribute                                        | 130 to 170                     |        |

## 6.10.3.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.38d.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 6.10.3.4.1.38d.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                    |
|               | Codes and time slots                 | SF16 x 7 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 916 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

6.10.3.4.1.38e Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38e.1 Uplink

6.10.3.4.1.38e.1.1 Transport channel parameters

6.10.3.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38e.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.1.1.2.

6.10.3.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38e.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                                                                                                                                                              |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                 |

6.10.3.4.1.38e.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bit                      |
|             | Puncturing Limit                     | 0.68                       |

6.10.3.4.1.38e.2 Downlink

6.10.3.4.1.38e.2.1 Transport channel parameters

6.10.3.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.2.1.2.

6.10.3.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38e.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                |

#### 6.10.3.4.1.38e.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

6.10.3.4.1.38f Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38f.1 Uplink

6.10.3.4.1.38f.1.1 Transport channel parameters

6.10.3.4.1.38f.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38f.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24 (alt. 32)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)<br>(alt.<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

#### 6.10.3.4.1.38f.1.2 Physical channel parameters

|             |          |           |
|-------------|----------|-----------|
| DPCH Uplink | Midamble | 512 chips |
|-------------|----------|-----------|



|  |                                      |                            |
|--|--------------------------------------|----------------------------|
|  | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|  | Max. Number of data bits/radio frame | 452 bits                   |
|  | TFCI code word                       | 16 bits                    |
|  | TPC                                  | 2 bits                     |
|  | Puncturing Limit                     | 0.48 (alt.0.56)            |

#### 6.10.3.4.1.38f.2 Downlink

##### 6.10.3.4.1.38f.2.1 Transport channel parameters

##### 6.10.3.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

##### 6.10.3.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

##### 6.10.3.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.10.3.4.1.38f.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

##### 6.10.3.4.1.38f.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.52                         |

#### 6.10.3.4.1.38g Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.3.4.1.38g.1 Uplink

##### 6.10.3.4.1.38g.1.1 Transport channel parameters

##### 6.10.3.4.1.38g.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

##### 6.10.3.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.1.1.1.

##### 6.10.3.4.1.38g.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.38g.1.1.4 TFCS

|                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                 | 32 (alt. 31)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS                                                                                                                      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0),<br>(TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0),<br>(TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0),<br>(TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1),<br>(TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1),<br>(TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1)<br>(alt.<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0),<br>(TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0),<br>(TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0),<br>(TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1),<br>(TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1),<br>(TF4,TF3,TF0,TF2,TF1)) |
| NOTE 1: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| NOTE 2: The alt. TFCS is used when the 16Kbps RAB alt. is used.                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 6.10.3.4.1.38g.1.2 Physical channel parameters

|             |                                      |                                                             |
|-------------|--------------------------------------|-------------------------------------------------------------|
| DPCH Uplink | Midamble                             | 512 chips                                                   |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot +<br>SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 664 bits (alt. 696 bits)                                    |
|             | TFCI code word                       | 32 bits (alt. 16 bits)                                      |
|             | TPC                                  | 2 bits                                                      |
|             | Puncturing Limit                     | 0.56 (alt. 0.60)                                            |

## 6.10.3.4.1.38g.2 Downlink

## 6.10.3.4.1.38g.2.1 Transport channel parameters

## 6.10.3.4.1.38g.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

## 6.10.3.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.2.1.1.

## 6.10.3.4.1.38g.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

## 6.10.3.4.1.38g.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),<br>(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## 6.10.3.4.1.38g.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 3 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 700 bits                     |
|               | TFCl code word                       | 32 bits                      |
|               | Puncturing limit                     | 0.56                         |

6.10.3.4.1.38h Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38h.1 Uplink

6.10.3.4.1.38h.1.1 Transport channel parameters

6.10.3.4.1.38h.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.1.1.1.

6.10.3.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38h.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## 6.10.3.4.1.38h.1.2 Physical channel parameters

|             |                                      |                                                             |
|-------------|--------------------------------------|-------------------------------------------------------------|
| DPCH Uplink | Midamble                             | 512 chips                                                   |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot +<br>SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 1 084 bits                                                  |
|             | TFCI code word                       | 32 bits                                                     |
|             | TPC                                  | 2 bits                                                      |
|             | Puncturing Limit                     | 0.68 (alt.0.60)                                             |

## 6.10.3.4.1.38h.2 Downlink

## 6.10.3.4.1.38h.2.1 Transport channel parameters

## 6.10.3.4.1.38h.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

## 6.10.3.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

## 6.10.3.4.1.38h.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.38h.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF1,TF0,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## 6.10.3.4.1.38h.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 4 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 944                          |
|               | TFCI code word                       | 32 bits                      |
|               | Puncturing limit                     | 0.60                         |

## 6.10.3.4.1.38i Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.38i.1 Uplink

## 6.10.3.4.1.38i.1.1 Transport channel parameters

## 6.10.3.4.1.38i.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

## 6.10.3.4.1.38i.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

## 6.10.3.4.1.38i.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.38i.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),<br>(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),<br>(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),<br>(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## 6.10.3.4.1.38i.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 256 chips                  |
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 1 936 bits                 |
|             | TFCI code word                       | 32 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.68 (alt.0.60)            |

## 6.10.3.4.1.38i.2 Downlink

## 6.10.3.4.1.38i.2.1 Transport channel parameters

## 6.10.3.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

## 6.10.3.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

## 6.10.3.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.38i.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),<br>(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0) |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),<br>(TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),<br>(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),<br>(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1),<br>(TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),<br>(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

#### 6.10.3.4.1.38i.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                    |
|               | Codes and time slots                 | SF16 x 7 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 900 bits                   |
|               | TFCI code word                       | 32 bits                      |
|               | Puncturing limit                     | 0.68                         |

6.10.3.4.1.38j Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38j.1 Uplink

See clause 6.10.3.4.1.38i.1

6.10.3.4.1.38j.2 Downlink

6.10.3.4.1.38j.2.1 Transport channel parameters

6.10.3.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38j.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),<br>(TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),<br>(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

#### 6.10.3.4.1.38j.2.2 Physical channel parameters

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                     |
|               | Codes and time slots                 | SF16 x 6 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 3 280 bits                    |
|               | TFCI code word                       | 32 bits                       |
|               | Puncturing limit                     | 0.64                          |

6.10.3.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

#### 6.10.3.4.1.39.1 Uplink

See clause 6.10.3.4.1.38.1.

#### 6.10.3.4.1.39.2 Downlink

##### 6.10.3.4.1.39.2.1 Transport channel parameters

6.10.3.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.39.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

#### 6.10.3.4.1.39.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 8 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 936 bits                   |
|               | TFCI code word                       | 16 bits                      |

|  |                  |      |
|--|------------------|------|
|  | Puncturing limit | 0.68 |
|--|------------------|------|

6.10.3.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.40.1 Uplink

6.10.3.4.1.40.1.1 Transport channel parameters

6.10.3.4.1.40.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.40.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

6.10.3.4.1.40.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.40.1.1.4 TFCS

6.10.3.4.1.40.1.1.4.1 TFCS (one CCTrCH case)

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

6.10.3.4.1.40.1.1.4.2 TFCS (two CCTrCH case)

6.10.3.4.1.40.1.1.4.2.1 TFCS (conversational + SRB)

|           |                                                                                                                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                                                                        |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                       |

6.10.3.4.1.40.1.1.4.2.2 TFCS (Interactive or background)

|           |                                                                                                                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 5                                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                            |

6.10.3.4.1.40.1.2 Physical channel parameters

6.10.3.4.1.40.1.2.1 Physical channel (one CCTrCH case)

|             |                      |                            |
|-------------|----------------------|----------------------------|
| DPCH Uplink | Midamble             | 512 chips                  |
|             | Codes and time slots | SF2 x 1 code x 1 time slot |



|  |                                      |                  |
|--|--------------------------------------|------------------|
|  | Max. Number of data bits/radio frame | 1 808 bits       |
|  | TFCl code word                       | 16 bit           |
|  | TPC                                  | 2 bits           |
|  | Puncturing Limit                     | 0.64 (alt. 0.56) |

#### 6.10.3.4.1.40.1.2.2 Physical channel (two CCTrCH case)

##### 6.10.3.4.1.40.1.2.2.1 Physical channel (conversational + SRB)

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCl code word                       | 16 bits                    |
|             | TPC                                  | 2 bit                      |
|             | Puncturing Limit                     | 0.68                       |

##### 6.10.3.4.1.40.1.2.2.2 Physical channel (Interactive or background)

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 1 808 bits                 |
|             | TFCl code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.84 (alt. 0.72)           |

#### 6.10.3.4.1.40.2 Downlink

##### Transport channel parameters

##### 6.10.3.4.1.40.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

##### 6.10.3.4.1.40.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

##### 6.10.3.4.1.40.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.10.3.4.1.40.2.1.4 TFCS

##### 6.10.3.4.1.40.2.1.4.1 TFCS (one CCTrCH case)

See Clause 6.10.3.4.1.39.2.1.4.

##### 6.10.3.4.1.40.2.1.4.2 TFCS (two CCTrCH case)

##### 6.10.3.4.1.40.2.1.4.2.1 TFCS (conversational + SRB)

|           |                                                                                                                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                                                                        |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                       |

##### 6.10.3.4.1.40.2.1.4.2.2 TFCS (Interactive or background)

|           |                                                                                                                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 5                                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                            |

## 6.10.3.4.1.40.2.2 Physical channel parameters

## 6.10.3.4.1.40.2.2.1 Physical channel parameters (one CCTrCH)

See clause 6.10.3.4.1.39.2.2.

## 6.10.3.4.1.40.2.2.2 Physical channel parameters (two CCTrCHs)

## 6.10.3.4.1.40.2.2.2.1 Physical channel parameters (conversational + SRB)

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

## 6.10.3.4.1.40.2.2.2.2 Physical channel parameters (Interactive or background)

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 5 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 204 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

## 6.10.3.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.41.1 Uplink

See clause 6.10.3.4.1.40.1.

## 6.10.3.4.1.41.2 Downlink

## 6.10.3.4.1.41.2.1 Transport channel parameters

## 6.10.3.4.1.41.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

## 6.10.3.4.1.41.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

## 6.10.3.4.1.41.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.41.2.1.4 TFCS

## 6.10.3.4.1.41.2.1.4.1 TFCS (one CCTrCH case)

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

#### 6.10.3.4.1.41.2.1.4.2 TFCS (two CCTrCH case)

##### 6.10.3.4.1.41.2.1.4.2.1 TFCS (conversational + SRB)

|                                                                                                                          |                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                                                                                                          |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                            |

##### 6.10.3.4.1.41.2.1.4.2.2 TFCS (Interactive or background)

|                                                                                                                          |                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 5                                                                                                                                                                                                               |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                 |

#### 6.10.3.4.1.41.2.2 Physical channel parameters

##### 6.10.3.4.1.41.2.2.1 Physical channel parameters (one CCTrCH)

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 256 chips                   |
|               | Codes and time slots                 | SF16 x 5codes x 2time slots |
|               | Max. Number of data bits/radio frame | 2 744 bits                  |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.52                        |

##### 6.10.3.4.1.41.2.2.2 Physical channel parameters (two CCTrCHs)

##### 6.10.3.4.1.41.2.2.2.1 Physical channel parameters (conversational + SRB)

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.64                         |

##### 6.10.3.4.1.41.2.2.2.2 Physical channel parameters (Interactive or background)

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                    |
|               | Codes and time slots                 | SF16 x 8 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 2 192 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0,48                         |

6.10.3.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.3.4.1.42.1 Uplink

##### 6.10.3.4.1.42.1.1 Transport channel parameters

##### 6.10.3.4.1.42.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

##### 6.10.3.4.1.42.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

#### 6.10.3.4.1.42.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.42.1.1.4 TFCS

See clause 6.10.3.4.1.40.1.1.4.1.

#### 6.10.3.4.1.42.1.2 Physical channel parameters

See clause 6.10.3.4.1.40.1.2.1.

#### 6.10.3.4.1.42.2 Downlink

#### 6.10.3.4.1.42.2.1 Transport channel parameters

##### 6.10.3.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

##### 6.10.3.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

##### 6.10.3.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.42.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30 (alt. 42)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 256 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)<br>(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),<br>(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)<br>(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),<br>(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1)) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

#### 6.10.3.4.1.42.2.2 Physical channel parameters

|               |                                      |                                                                 |
|---------------|--------------------------------------|-----------------------------------------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                                                       |
|               | Codes and time slots                 | SF16 x 8 codes x 2 time slots +<br>SF16 x 4 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 5 504 bits (alt. 5 488)                                         |

|  |                  |                   |
|--|------------------|-------------------|
|  | TFCI code word   | 16 bits (alt. 32) |
|  | Puncturing limit | 0.60              |

6.10.3.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.43.1 Uplink

See clause 6.10.3.4.1.40.1.

6.10.3.4.1.43.2 Downlink

6.10.3.4.1.43.2.1 Transport channel parameters

6.10.3.4.1.43.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

See clause 6.10.3.4.1.32.2.1.1.

6.10.3.4.1.43.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.43.2.1.4 TFCS

6.10.3.4.1.43.2.1.4.1 TFCS (one CCTrCH case)

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 36 (alt. 54)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS      | <p>(RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=</p> <p>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0), (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1), (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1), (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1))</p> |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

6.10.3.4.1.43.2.1.4.2 TFCS (two CCTrCH case)

## 6.10.3.4.1.43.2.1.4.2.1 TFCS (conversational + SRB)

|           |                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                                                                         |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                        |

## 6.10.3.4.1.43.2.1.4.2.2 TFCS (Interactive or background)

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6 (alt. 9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0)<br>(alt. (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0),<br>(TF0, TF0, TF0, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF0, TF0, TF0, TF8, TF0)) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                          |

## 6.10.3.4.1.43.2.2 Physical channel parameters

## 6.10.3.4.1.43.2.2.1 Physical channel parameters (one CCTrCH)

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                     |
|               | Codes and time slots                 | SF16 x 8 codes x 3 time slots |
|               | Max. Number of data bits/radio frame | 6 592 bits                    |
|               | TFCl code word                       | 32 bits                       |
|               | Puncturing limit                     | 0.48                          |

## 6.10.3.4.1.43.2.2.2 Physical channel parameters (two CCTrCHs)

## 6.10.3.4.1.43.2.2.2.1 Physical channel parameters (conversational + SRB)

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCl code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.60                         |

## 6.10.3.4.1.43.2.2.2.2 Physical channel parameters (Interactive or background)

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                     |
|               | Codes and time slots                 | SF16 x 8 codes x 3 time slots |
|               | Max. Number of data bits/radio frame | 6 608 bits                    |
|               | TFCl code word                       | 16 bits                       |
|               | Puncturing limit                     | 0,52                          |

6.10.3.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.44.1 Uplink

## 6.10.3.4.1.44.1.1 Transport channel parameters

## 6.10.3.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

## 6.10.3.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

## 6.10.3.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.44.1.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## 6.10.3.4.1.44.1.2 Physical channel parameters

|             |                                      |                                                |
|-------------|--------------------------------------|------------------------------------------------|
| DPCH Uplink | Midamble                             | 256 chips                                      |
|             | Codes and time slots                 | {SF8 x 1 code + SF2 x 1 code}<br>x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 616 bits                                     |
|             | TFCI code word                       | 16 bits                                        |
|             | TPC                                  | 2 bits                                         |
|             | Puncturing Limit                     | 0.52 (alt. 0.44)                               |

## 6.10.3.4.1.44.2 Downlink

## 6.10.3.4.1.44.2.1 Transport channel parameters

## 6.10.3.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

## 6.10.3.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

See clause 6.10.3.4.1.35.2.1.1.

## 6.10.3.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.44.2.1.4 TFCS

[illegible]



## 6.10.3.4.1.44.2.2 Physical channel parameters

|               |                                      |                                 |
|---------------|--------------------------------------|---------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                       |
|               | Codes and time slots                 | SF16 x 12 codes x 11 time slots |
|               | Max. Number of data bits/radio frame | 36 400 bits                     |
|               | TFCI code word                       | 32 bits                         |
|               | Puncturing limit                     | 0.52                            |

6.10.3.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.45.1 Uplink

6.10.3.4.1.45.1.1 Transport channel parameters

6.10.3.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

See clause 6.10.3.4.1.17.1.1.1.

6.10.3.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.45.1.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## 6.10.3.4.1.45.1.2 Physical channel parameters

|             |                                      |                                                        |
|-------------|--------------------------------------|--------------------------------------------------------|
| DPCH Uplink | Midamble                             | 512 chips                                              |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot + SF4 x 1 codex 1 time slot |
|             | Max. Number of data bits/radio frame | 1 392 bits                                             |
|             | TFCI code word                       | 16 bits                                                |
|             | TPC                                  | 2 bits                                                 |
|             | Puncturing Limit                     | 0.56                                                   |

6.10.3.4.1.45.2 Downlink

6.10.3.4.1.45.2.1 Transport channel parameters

6.10.3.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

See clause 6.10.3.4.1.17.2.1.1.

## 6.10.3.4.1.45.2.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.45.2.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## 6.10.3.4.1.45.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 6 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 448 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

6.10.3.4.1.46 Void

6.10.3.4.1.47 Void

6.10.3.4.1.48 Void

6.10.3.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.49.1 Uplink

6.10.3.4.1.49.1.1 Transport channel parameters

6.10.3.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.49.1.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 12                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                  |

## 6.10.3.4.1.49.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 256 chips                  |
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72                       |

#### 6.10.3.4.1.49.2 Downlink

##### 6.10.3.4.1.49.2.1 Transport channel parameters

###### 6.10.3.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

###### 6.10.3.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

###### 6.10.3.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.10.3.4.1.49.2.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 12                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### 6.10.3.4.1.49.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                    |
|               | Codes and time slots                 | SF16 x 8 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 2 192 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.76                         |

#### 6.10.3.4.1.49a Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.3.4.1.49a.1 Uplink

###### 6.10.3.4.1.49a.1.1 Transport channel parameters

###### 6.10.3.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

###### 6.10.3.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

###### 6.10.3.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

##### 6.10.3.4.1.49a.1.1.4 TFCS

|           |    |
|-----------|----|
| TFCS size | 24 |
|-----------|----|

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### 6.10.3.4.1.49a.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 256 chips                  |
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72                       |

#### 6.10.3.4.1.49a.2 Downlink

#### 6.10.3.4.1.49a.2.1 Transport channel parameters

##### 6.10.3.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

##### 6.10.3.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

##### 6.10.3.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.49a.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### 6.10.3.4.1.49a.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                    |
|               | Codes and time slots                 | SF16 x 7 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 916 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

#### 6.10.3.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.3.4.1.50.1 Uplink

## 6.10.3.4.1.50.1.1 Transport channel parameters

## 6.10.3.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

## 6.10.3.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.50.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 8                                                                                                                                                                             |
| TFCS                                                                                                                     | (64 kbps RAB, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0)<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                               |

## 6.10.3.4.1.50.1.2 Physical channel parameters

|             |                                      |                                                            |
|-------------|--------------------------------------|------------------------------------------------------------|
| DPCH Uplink | Midamble                             | 512 chips                                                  |
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot +<br>SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 784 bits                                                 |
|             | TFCI code word                       | 16 bits                                                    |
|             | TPC                                  | 2 bits                                                     |
|             | Puncturing Limit                     | 0.60                                                       |

## 6.10.3.4.1.50.2 Downlink

## 6.10.3.4.1.50.2.1 Transport channel parameters

## 6.10.3.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

## 6.10.3.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.50.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 8                                                                                                                                                                             |
| TFCS                                                                                                                     | (64 kbps RAB, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0)<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                               |

## 6.10.3.4.1.50.2.2 Physical channel parameters

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                     |
|               | Codes and time slots                 | SF16 x 6 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 2 912 bits                    |
|               | TFCI code word                       | 16 bits                       |
|               | Puncturing limit                     | 0.64                          |

## 6.10.3.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.51.1 Uplink

## 6.10.3.4.1.51.1.1 Transport channel parameters

## 6.10.3.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

6.10.3.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.51.1.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 20                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS                                                                                                                     | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                            |

6.10.3.4.1.51.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 256 chips                  |
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.44 (alt. 0.40)           |

6.10.3.4.1.51.2 Downlink

6.10.3.4.1.51.2.1 Transport channel parameters

6.10.3.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.51.2.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 20                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS                                                                                                                     | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                            |

6.10.3.4.1.51.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                    |
|               | Codes and time slots                 | SF16 x 8 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 2 192 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.48                         |

6.10.3.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.51a.1 Uplink

6.10.3.4.1.51a.1.1 Transport channel parameters

6.10.3.4.1.51a.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.51a.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.51a.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 8 (alt. 12)                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TFCS                                                                                                                    | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)<br>(alt.<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                   |

6.10.3.4.1.51a.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 256 chips                  |
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.76                       |

6.10.3.4.1.51a.2 Downlink

6.10.3.4.1.51a.2.1 Transport channel parameters

6.10.3.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.51a.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.10.3.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.51a.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 8                                                                                                                                                                                                |
| TFCS                                                                                                                    | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                  |

## 6.10.3.4.1.51a.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                    |
|               | Codes and time slots                 | SF16 x 6 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 640 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.60                         |

6.10.3.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.51b.1 Uplink

## 6.10.3.4.1.51b.1.1 Transport channel parameters

6.10.3.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.51b.1.1.2 Transport channel parameters for Interactive or Background / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.1.1.1.

6.10.3.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.51b.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                                                                    |
| TFCS                                                                                                                    | (64 kbps Conversational RAB, 16 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                       |

## 6.10.3.4.1.51b.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 256 chips                  |
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.68                       |

## 6.10.3.4.1.51b.2 Downlink

See clause 6.10.3.4.1.51.2.

6.10.3.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.52.1 Uplink

See clause 6.10.3.4.1.51.1.

## 6.10.3.4.1.52.2 Downlink

## 6.10.3.4.1.52.2.1 Transport channel parameters

6.10.3.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB



See clause 6.10.3.4.1.27.2.1.1.

#### 6.10.3.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.52.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS      | (Conv. 64 kbps RAB, I/B 128 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                          |

#### 6.10.3.4.1.52.2.2 Physical channel parameters

|               |                                      |                                                                    |
|---------------|--------------------------------------|--------------------------------------------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                                                          |
|               | Codes and time slots                 | {SF16 x 8 codes x 1 time slot} +<br>{SF16 x 5 codes x 1 time slot} |
|               | Max. Number of data bits/radio frame | 3 156 bits                                                         |
|               | TFCl code word                       | 16 bits                                                            |
|               | Puncturing limit                     | 0.44                                                               |

#### 6.10.3.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.10.3.4.1.53.1 Uplink

#### 6.10.3.4.1.53.1.1 Transport channel parameters

#### 6.10.3.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

#### 6.10.3.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

#### 6.10.3.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.53.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS      | (Conv. 64 kbps RAB, I/B 128kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                         |

#### 6.10.3.4.1.53.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF2 x 1 code x 2 timeslots |
|             | Max. Number of data bits/radio frame | 3 760 bits                 |
|             | TFCl code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.52 (alt. 0.48)           |

#### 6.10.3.4.1.53.2 Downlink

See clause 6.10.3.4.1.52.2.

6.10.3.4.1.54 Void

6.10.3.4.1.55 Void

6.10.3.4.1.56 Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.56.1 Uplink

6.10.3.4.1.56.1.1 Transport channel parameters

6.10.3.4.1.56.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB + UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                   | RAB                            | RAB           |
|--------------|-----------------------------------------------------|--------------------------------|---------------|
| RLC          | Logical channel type                                | DTCH                           | DTCH          |
|              | RLC mode                                            | AM                             | AM            |
|              | Payload sizes, bit                                  | 320 (alt. 128)                 | 320 (alt.128) |
|              | Max data rate, bps                                  | 8 000                          | 8 000         |
|              | AMD PDU header, bit                                 | 16                             | 16            |
| MAC          | MAC header, bit                                     | 4                              | 4             |
|              | MAC multiplexing                                    | 2 logical channel multiplexing |               |
| Layer 1      | TrCH type                                           | DCH                            |               |
|              | TB sizes, bit                                       | 340 (alt. 148)                 |               |
|              | TFS                                                 | TF0, bits                      |               |
|              |                                                     | 0x340 (alt. 0x148)             |               |
|              |                                                     | TF1, bits                      |               |
|              |                                                     | 1x340 (alt. 1x148)             |               |
|              |                                                     | TF2, bits                      |               |
|              |                                                     | N/A (alt. 5x148)               |               |
|              | TTI, ms                                             | 40 (alt. 80)                   |               |
|              | Coding type                                         | TC                             |               |
|              | CRC, bit                                            | 16                             |               |
|              | Max number of bits/TTI after channel coding         | 1 080 (alt. 2 472)             |               |
|              | Max number of bits/radio frame before rate matching | 270 (alt. 309)                 |               |
|              | RM attribute                                        | 135 to 175                     |               |

6.10.3.4.1.56.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.56.1.1.3 TFCS

|                                                                                                                         |                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 4 (alt. 6)                                                                                                                                                |
| TFCS                                                                                                                    | (8 kbps RAB + 8 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1)<br>(alt. (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1)) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                           |

6.10.3.4.1.56.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                   |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCl code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.52 (alt. 0.48)            |

NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits (alt. 16 bits).

## 6.10.3.4.1.56.2 Downlink

## 6.10.3.4.1.56.2.1 Transport channel parameters

## 6.10.3.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                   | RAB                            | RAB   |
|--------------|-----------------------------------------------------|--------------------------------|-------|
| RLC          | Logical channel type                                | DTCH                           | DTCH  |
|              | RLC mode                                            | AM                             | AM    |
|              | Payload sizes, bit                                  | 320                            | 320   |
|              | Max data rate, bps                                  | 8 000                          | 8 000 |
|              | AMD PDU header, bit                                 | 16                             | 16    |
| MAC          | MAC header, bit                                     | 4                              | 4     |
|              | MAC multiplexing                                    | 2 logical channel multiplexing |       |
| Layer 1      | TrCH type                                           | DCH                            |       |
|              | TB sizes, bit                                       | 340                            |       |
|              | TFS                                                 | 0x340                          |       |
|              |                                                     | 1x340                          |       |
|              | TTI, ms                                             | 40                             |       |
|              | Coding type                                         | TC                             |       |
|              | CRC, bit                                            | 16                             |       |
|              | Max number of bits/TTI after channel coding         | 1 080                          |       |
|              | Max number of bits/radio frame before rate matching | 270                            |       |
|              | RM attribute                                        | 135 to 175                     |       |

## 6.10.3.4.1.56.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.56.2.1.3 TFCS

|                                                                                                                         |                                                                                |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 4                                                                              |
| TFCS                                                                                                                    | (8 kbps RAB + 8 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                |

## 6.10.3.4.1.56.2.2 Physical channel parameters

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 512 chips                    |
|                                                                                               | Codes and time slots                 | SF16 x 1 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 228 bits                     |
|                                                                                               | TFCl code word                       | 16 bits                      |
|                                                                                               | Puncturing limit                     | 0.56                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                              |

## 6.10.3.4.1.57 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.1.57.1 Uplink

## 6.10.3.4.1.57.1.1 Transport channel parameters

## 6.10.3.4.1.57.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

See clause 6.10.3.4.1.38d.1.1.2.

## 6.10.3.4.1.57.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.57.1.1.3 TFCS

|                                                                                                                         |                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 10                                                                                                                                                    |
| TFCS                                                                                                                    | (64 kbps RAB + 64 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0),<br>(TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                       |

#### 6.10.3.4.1.57.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 256 chips                  |
|             | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.88 (alt. 0.76)           |

#### 6.10.3.4.1.57.2 Downlink

##### 6.10.3.4.1.57.2.1 Transport channel parameters

##### 6.10.3.4.1.57.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                   | RAB                            | RAB    |
|--------------|-----------------------------------------------------|--------------------------------|--------|
| RLC          | Logical channel type                                | DTCH                           | DTCH   |
|              | RLC mode                                            | AM                             | AM     |
|              | Payload sizes, bit                                  | 320                            | 320    |
|              | Max data rate, bps                                  | 64 000                         | 64 000 |
|              | AMD PDU header, bit                                 | 16                             | 16     |
| MAC          | MAC header, bit                                     | 4                              | 4      |
|              | MAC multiplexing                                    | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                           | DCH                            |        |
|              | TB sizes, bit                                       | 340                            |        |
|              | TFS                                                 | TF0, bits                      | 0x340  |
|              |                                                     | TF1, bits                      | 1x340  |
|              |                                                     | TF2, bits                      | 2x340  |
|              |                                                     | TF3, bits                      | 3x340  |
|              |                                                     | TF4, bits                      | 4x340  |
|              | TTI, ms                                             | 20                             |        |
|              | Coding type                                         | TC                             |        |
|              | CRC, bit                                            | 16                             |        |
|              | Max number of bits/TTI after channel coding         | 4 284                          |        |
|              | Max number of bits/radio frame before rate matching | 2 142                          |        |
|              | RM attribute                                        | 130 to 170                     |        |

##### 6.10.3.4.1.57.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.10.3.4.1.57.2.1.3 TFCS

|                                                                                                                         |                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 10                                                                                                                                                    |
| TFCS                                                                                                                    | (64 kbps RAB + 64 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0),<br>(TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                       |

#### 6.10.3.4.1.57.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                    |
|               | Codes and time slots                 | SF16 x 5 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 364 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

6.10.3.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.58.1 Uplink

6.10.3.4.1.58.1.1 Transport channel parameters

6.10.3.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

|              |                                                     |            |
|--------------|-----------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                   | RAB        |
| RLC          | Logical channel type                                | DTCH       |
|              | RLC mode                                            | AM         |
|              | Payload sizes, bit                                  | 320        |
|              | Max data rate, bps                                  | 16 000     |
|              | AMD PDU header, bit                                 | 16         |
| MAC          | MAC header, bit                                     | 0          |
|              | MAC multiplexing                                    | N/A        |
| Layer 1      | TrCH type                                           | DCH        |
|              | TB sizes, bit                                       | 336        |
|              | TFS                                                 | TF0, bits  |
|              |                                                     | TF1, bits  |
|              | TTI, ms                                             | 20         |
|              | Coding type                                         | TC         |
|              | CRC, bit                                            | 16         |
|              | Max number of bits/TTI after channel coding         | 1 068      |
|              | Max number of bits/radio frame before rate matching | 534        |
|              | RM attribute                                        | 135 to 175 |

6.10.3.4.1.58.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.58.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.58.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 8 (alt. 12)                                                                                                                                                                                                                                                                                                                                                      |
| TFCS      | (16 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0),<br>(TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1)<br>(alt.<br>(TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF0,TF2,TF0), (TF1,TF2,TF0),<br>(TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF0,TF2,TF1), (TF1,TF2,TF1)) |

NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.58.1.2 Physical channel parameters

|             |                                      |                                                            |
|-------------|--------------------------------------|------------------------------------------------------------|
| DPCH Uplink | Midamble                             | 512 chips                                                  |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot +<br>SF16 x 1code x 1 time slot |
|             | Max. Number of data bits/radio frame | 696 bits                                                   |
|             | TFCI code word                       | 16 bits                                                    |
|             | TPC                                  | 2 bits                                                     |
|             | Puncturing Limit                     | 0.72 (alt. 0.68)                                           |

6.10.3.4.1.58.2 Downlink

6.10.3.4.1.58.2.1 Transport channel parameters

6.10.3.4.1.58.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

|              |                                                     |            |
|--------------|-----------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                   | RAB        |
| RLC          | Logical channel type                                | DTCH       |
|              | RLC mode                                            | AM         |
|              | Payload sizes, bit                                  | 640        |
|              | Max data rate, bps                                  | 64 000     |
|              | AM PDU header, bit                                  | 16         |
| MAC          | MAC header, bit                                     | 0          |
|              | MAC multiplexing                                    | N/A        |
| Layer 1      | TrCH type                                           | DCH        |
|              | TB sizes, bit                                       | 656        |
|              | TFS                                                 | TF0, bits  |
|              |                                                     | TF1, bits  |
|              |                                                     | TF2, bits  |
|              |                                                     | TF3, bits  |
|              | TTI, ms                                             | 40         |
|              | Coding type                                         | TC         |
|              | CRC, bit                                            | 16         |
|              | Max number of bits/TTI after channel coding         | 8 076      |
|              | Max number of bits/radio frame before rate matching | 2 019      |
|              | RM attribute                                        | 125 to 165 |

#### 6.10.3.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

#### 6.10.3.4.1.58.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.58.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 16                                                                                                                                                                                                                                                                                          |
| TFCS      | (64 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0),<br>(TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0),<br>(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1),<br>(TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                           |

#### 6.10.3.4.1.58.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 256 chips                    |
|               | Codes and time slots                 | SF16 x 6 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 640 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.64                         |

#### 6.10.3.4.1.59 Reserved for future use

#### 6.10.3.4.1.60 Reserved for future use

#### 6.10.3.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.3.4.1.61.1 Uplink

##### 6.10.3.4.1.61.1.1 Transport channel parameters

##### 6.10.3.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

|              |                      |      |
|--------------|----------------------|------|
| Higher layer | RAB/Signalling RB    | RAB  |
| RLC          | Logical channel type | DTCH |
|              | RLC mode             | UM   |
|              | Payload sizes, bit   | 320  |

|                                                                                                                                                                                                    |                                                     |                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------|
|                                                                                                                                                                                                    | Max data rate, bps                                  | 8 000                  |
|                                                                                                                                                                                                    | UMD PDU header, bit                                 | 8                      |
| MAC                                                                                                                                                                                                | MAC header, bit                                     | 0                      |
|                                                                                                                                                                                                    | MAC multiplexing                                    | N/A                    |
| Layer 1                                                                                                                                                                                            | TrCH type                                           | DCH                    |
|                                                                                                                                                                                                    | TB sizes, bit                                       | 328 (alt 0, 328)       |
|                                                                                                                                                                                                    | TFS                                                 | TF0, bits              |
|                                                                                                                                                                                                    |                                                     | 0x328 (alt 1x0) (note) |
|                                                                                                                                                                                                    |                                                     | TF1, bits              |
|                                                                                                                                                                                                    |                                                     | 1x328                  |
|                                                                                                                                                                                                    | TTI, ms                                             | 40                     |
|                                                                                                                                                                                                    | Coding type                                         | TC                     |
|                                                                                                                                                                                                    | CRC, bit                                            | 16                     |
|                                                                                                                                                                                                    | Max number of bits/TTI after channel coding         | 1 044                  |
|                                                                                                                                                                                                    | Max number of bits/radio frame before rate matching | 261                    |
|                                                                                                                                                                                                    | RM attribute                                        | 135 to 175             |
| NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                        |

#### 6.10.3.4.1.61.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

#### 6.10.3.4.1.61.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.61.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 8 (alt. 12)                                                                                                                                                                                                                                                                                                                                                                                                                      |
| TFCS                                                                                                                    | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)<br>(alt.<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### 6.10.3.4.1.61.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.68 (alt. 0.64)           |

#### 6.10.3.4.1.61.2 Downlink

#### 6.10.3.4.1.61.2.1 Transport channel parameters

#### 6.10.3.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

|              |                      |                        |
|--------------|----------------------|------------------------|
| Higher layer | RAB/Signalling RB    | RAB                    |
| RLC          | Logical channel type | DTCH                   |
|              | RLC mode             | UM                     |
|              | Payload sizes, bit   | 320                    |
|              | Max data rate, bps   | 8 000                  |
|              | AMD PDU header, bit  | 8                      |
| MAC          | MAC header, bit      | 0                      |
|              | MAC multiplexing     | N/A                    |
| Layer 1      | TrCH type            | DCH                    |
|              | TB sizes, bit        | 328 (alt 0, 328)       |
|              | TFS                  | TF0, bits              |
|              |                      | 0x328 (alt 1x0) (note) |

|                                                                                                                                                                                                    |                                                     |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|
|                                                                                                                                                                                                    | TF1, bits                                           | 1x328      |
|                                                                                                                                                                                                    | TTI, ms                                             | 40         |
|                                                                                                                                                                                                    | Coding type                                         | TC         |
|                                                                                                                                                                                                    | CRC, bit                                            | 16         |
|                                                                                                                                                                                                    | Max number of bits/TTI after channel coding         | 1 044      |
|                                                                                                                                                                                                    | Max number of bits/radio frame before rate matching | 261        |
|                                                                                                                                                                                                    | RM attribute                                        | 135 to 175 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |            |

#### 6.10.3.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

#### 6.10.3.4.1.61.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.61.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 8                                                                                                                                                                                               |
| TFCS                                                                                                                    | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                 |

#### 6.10.3.4.1.61.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

#### 6.10.3.4.2 Combinations on PDSCH, SCCPCH, PUSCH and PRACH

6.10.3.4.2.1 Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

#### 6.10.3.4.2.1.1 Uplink

#### 6.10.3.4.2.1.1.1 Transport channel parameters

6.10.3.4.2.1.1.1.1 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

|              |                         |                |                     |
|--------------|-------------------------|----------------|---------------------|
| Higher layer | RAB/Signalling RB       | RAB            | SRB#5               |
| RLC          | Logical channel type    | DTCH           | SHCCH               |
|              | RLC mode                | AM             | TM                  |
|              | Payload sizes, bit      | 320 (alt. 128) | 168                 |
|              | Max data rate, bps      | 64 000         | 16 800              |
|              | AMD/TrD PDU header, bit | 16             | 0                   |
| MAC          | MAC header, bit         | 1              | 1                   |
|              | MAC multiplexing        | N/A            | N/A                 |
| Layer 1      | TrCH type               | USCH           | USCH                |
|              | TB sizes, bit           | 337 (alt. 145) | 169                 |
|              | TFS                     | TF0, bits      | 0x337 (alt. 0x145)  |
|              |                         | TF1, bits      | 1x337 (alt. 1x145)  |
|              |                         | TF2, bits      | 2x337 (alt. 3x145)  |
|              |                         | TF3, bits      | 3x337 (alt. 7x145)  |
|              |                         | TF4, bits      | 4x337 (alt. 10x145) |
|              | TTI, ms                 | 20             | 10                  |
|              | Coding type             | TC             | CC 1/2              |
|              | CRC, bit                | 16             | 16                  |



|  |                                                     |                    |            |
|--|-----------------------------------------------------|--------------------|------------|
|  | Max number of bits/TTI after channel coding         | 4 248 (alt. 4 842) | 386        |
|  | Max number of bits/radio frame before rate matching | 2 124 (alt. 2 421) | 386        |
|  | RM attribute                                        | 135 to 175         | 230 to 250 |

#### 6.10.3.4.2.1.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

|              |                                                     |           |                                |       |                     |                    |
|--------------|-----------------------------------------------------|-----------|--------------------------------|-------|---------------------|--------------------|
| Higher layer | RAB/signalling RB                                   |           | SRB#1                          | SRB#2 | SRB#3               | SRB#4              |
|              | User of Radio Bearer                                |           | RRC                            | RRC   | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC          | Logical channel type                                |           | DCCH                           | DCCH  | DCCH                | DCCH               |
|              | RLC mode                                            |           | UM                             | AM    | AM                  | AM                 |
|              | Payload sizes, bit                                  |           | 136                            | 128   | 128                 | 128                |
|              | Max data rate, bps                                  |           | 3 400                          | 3 200 | 3 200               | 3 200              |
|              | AMD/UMD PDU header, bit                             |           | 8                              | 16    | 16                  | 16                 |
| MAC          | MAC header, bit                                     |           | 5                              | 5     | 5                   | 5                  |
|              | MAC multiplexing                                    |           | 4 logical channel multiplexing |       |                     |                    |
| Layer 1      | TrCH type                                           |           | USCH                           |       |                     |                    |
|              | TB sizes, bit                                       |           | 149                            |       |                     |                    |
|              | TFS                                                 | TF0, bits | 0x149                          |       |                     |                    |
|              |                                                     | TF1, bits | 1x149                          |       |                     |                    |
|              | TTI, ms                                             |           | 40                             |       |                     |                    |
|              | Coding type                                         |           | CC 1/3                         |       |                     |                    |
|              | CRC, bit                                            |           | 16                             |       |                     |                    |
|              | Max number of bits/TTI before rate matching         |           | 519                            |       |                     |                    |
|              | Max number of bits/radio frame before rate matching |           | 130                            |       |                     |                    |
|              | RM attribute                                        |           | 190 to 210                     |       |                     |                    |

#### 6.10.3.4.2.1.1.1.3 TFCS for USCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20                                                                                                                                                                                                                                                                                                                                                                                                  |
| TFCS      | (64 kbps RAB, SHCCH, SRBs for DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0, TF1, TF0),<br>(TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1),<br>(TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1) |

#### 6.10.3.4.2.1.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

##### 6.10.3.4.2.1.1.1.4.1 RACH transport channel configuration without DTCH

|              |                                                     |                                |              |              |                              |                             |              |
|--------------|-----------------------------------------------------|--------------------------------|--------------|--------------|------------------------------|-----------------------------|--------------|
| Higher layer | RAB/signalling RB<br>User of Radio Bearer           | SRB#0<br>RRC                   | SRB#1<br>RRC | SRB#2<br>RRC | SRB#3<br>NAS_DT<br>High prio | SRB#4<br>NAS_DT<br>Low prio | SRB#5<br>RRC |
| RLC          | Logical channel type                                | CCCH                           | DCCH         | DCCH         | DCCH                         | DCCH                        | SHCCH        |
|              | RLC mode                                            | TM                             | UM           | AM           | AM                           | AM                          | TM           |
|              | Payload sizes, bit                                  | 168                            | 136          | 128          | 128                          | 128                         | 168          |
|              | Max data rate, bps                                  | 16 800                         | 13 600       | 12 800       | 12 800                       | 12 800                      | 16 800       |
|              | AMD/UMD/TrD PDU header, bit                         | 0                              | 8            | 16           | 16                           | 16                          | 0            |
| MAC          | MAC header, bit                                     | 2                              | 26           | 26           | 26                           | 26                          | 2            |
|              | MAC multiplexing                                    | 6 logical channel multiplexing |              |              |                              |                             |              |
| Layer 1      | TrCH type                                           | RACH                           |              |              |                              |                             |              |
|              | TB sizes, bit                                       | 170                            |              |              |                              |                             |              |
|              | TFS                                                 | 1x170                          |              |              |                              |                             |              |
|              | TTI, ms                                             | 10                             |              |              |                              |                             |              |
|              | Coding type                                         | CC 1/2                         |              |              |                              |                             |              |
|              | CRC, bit                                            | 16                             |              |              |                              |                             |              |
|              | Max number of bits/TTI after channel coding         | 388                            |              |              |                              |                             |              |
|              | Max number of bits/radio frame before rate matching | 388                            |              |              |                              |                             |              |

## 6.10.3.4.2.1.1.4.2 RACH transport channel configuration with DTCH

|              |                                                     |                                   |        |        |        |                     |                    |        |
|--------------|-----------------------------------------------------|-----------------------------------|--------|--------|--------|---------------------|--------------------|--------|
| Higher layer | RAB/signalling RB                                   | RAB                               | SRB#0  | SRB#1  | SRB#2  | SRB#3               | SRB#4              | SRB#5  |
|              | User of Radio Bearer                                | Interactive/<br>Background<br>RAB | RRC    | RRC    | RRC    | NAS_DT<br>High prio | NAS_DT<br>Low prio | RRC    |
| RLC          | Logical channel type                                | DTCH                              | CCCH   | DCCH   | DCCH   | DCCH                | DCCH               | SHCCH  |
|              | RLC mode                                            | AM                                | TM     | UM     | AM     | AM                  | AM                 | TM     |
|              | Payload sizes, bit                                  | 128                               | 168    | 136    | 128    | 128                 | 128                | 168    |
|              | Max data rate, bps                                  | 12 800                            | 16 800 | 13 600 | 12 800 | 12 800              | 12 800             | 16 800 |
|              | AMD/UMD/TrD PDU header, bit                         | 16                                | 0      | 8      | 16     | 16                  | 16                 | 0      |
| MAC          | MAC header, bit                                     | 26                                | 2      | 26     | 26     | 26                  | 26                 | 2      |
|              | MAC multiplexing                                    | 7 logical channel multiplexing    |        |        |        |                     |                    |        |
| Layer 1      | TrCH type                                           | RACH                              |        |        |        |                     |                    |        |
|              | TB sizes, bit                                       | 170                               |        |        |        |                     |                    |        |
|              | TFS TF0, bits                                       | 1x170                             |        |        |        |                     |                    |        |
|              | TTI, ms                                             | 10                                |        |        |        |                     |                    |        |
|              | Coding type                                         | CC 1/2                            |        |        |        |                     |                    |        |
|              | CRC, bit                                            | 16                                |        |        |        |                     |                    |        |
|              | Max number of bits/TTI after channel coding         | 388                               |        |        |        |                     |                    |        |
|              | Max number of bits/radio frame before rate matching | 388                               |        |        |        |                     |                    |        |

## 6.10.3.4.2.1.1.2 Physical channel parameters

## 6.10.3.4.2.1.1.2.1 Physical channel parameters for PUSCH

|       |                                      |                            |
|-------|--------------------------------------|----------------------------|
| PUSCH | Midamble                             | 512 chips                  |
|       | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|       | Max. Number of data bits/radio frame | 1 808 bits                 |
|       | TFCI code word                       | 16 bits                    |
|       | TPC                                  | 2 bits                     |
|       | Puncturing Limit                     | 0.60 (alt. 0.56)           |

## 6.10.3.4.2.1.1.2.2 Physical channel parameters for PRACH

|       |                                      |                                        |
|-------|--------------------------------------|----------------------------------------|
| PRACH | Midamble                             | 512 chips                              |
|       | Codes and time slots                 | SF8 (alt. SF16) x 1 code x 1 time slot |
|       | Max. Number of data bits/radio frame | 464 (alt. 232)                         |
|       | Puncturing Limit                     | 1 (alt. 0.56)                          |

## 6.10.3.4.2.1.2 Downlink

## 6.10.3.4.2.1.2.1 Transport channel parameters

## 6.10.3.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

|              |                         |         |        |
|--------------|-------------------------|---------|--------|
| Higher layer | RAB/Signalling RB       | RAB     | SRB#5  |
| RLC          | Logical channel type    | DTCH    | SHCCH  |
|              | RLC mode                | AM      | UM     |
|              | Payload sizes, bit      | 320     | 160    |
|              | Max data rate, bps      | 256 000 | 16 000 |
|              | AMD/UMD PDU header, bit | 16      | 8      |
| MAC          | MAC header, bit         | 1       | 1      |
|              | MAC multiplexing        | N/A     | N/A    |
| Layer 1      | TrCH type               | DSCH    | DSCH   |
|              | TB sizes, bit           | 337     | 169    |

|  |                                                               |           |                     |            |
|--|---------------------------------------------------------------|-----------|---------------------|------------|
|  | TFS                                                           | TF0, bits | 0x337               | 0x169      |
|  |                                                               | TF1, bits | 1x337               | 1x169      |
|  |                                                               | TF2, bits | 2x337               | N/A        |
|  |                                                               | TF3, bits | 4x337               | N/A        |
|  |                                                               | TF4, bits | 8x337               | N/A        |
|  |                                                               | TF5, bits | N/A (alt. 12x337)   | N/A        |
|  |                                                               | TF6, bits | N/A (alt. 16x337)   | N/A        |
|  | TTI, ms                                                       |           | 10 (alt. 20)        | 10         |
|  | Coding type                                                   |           | TC                  | CC 1/2     |
|  | CRC, bit                                                      |           | 16                  | 16         |
|  | Max number of bits/TTI after channel coding                   |           | 8 484 (alt. 16 968) | 386        |
|  | Downlink: Max number of bits/radio frame before rate matching |           | 8 484 (alt. 8 484)  | 386        |
|  | RM attribute                                                  |           | 135 to 175          | 230 to 250 |

#### 6.10.3.4.2.1.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

|              |                                                     |                                |              |                              |                             |
|--------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|-----------------------------|
| Higher layer | RAB/signalling RB<br>User of Radio Bearer           | SRB#1<br>RRC                   | SRB#2<br>RRC | SRB#3<br>NAS_DT<br>High prio | SRB#4<br>NAS_DT<br>Low prio |
| RLC          | Logical channel type                                | DCCH                           | DCCH         | DCCH                         | DCCH                        |
|              | RLC mode                                            | UM                             | AM           | AM                           | AM                          |
|              | Payload sizes, bit                                  | 136                            | 128          | 128                          | 128                         |
|              | Max data rate, bps                                  | 3 400                          | 3 200        | 3 200                        | 3 200                       |
|              | AMD/UMD PDU header, bit                             | 8                              | 16           | 16                           | 16                          |
| MAC          | MAC header, bit                                     | 5                              | 5            | 5                            | 5                           |
|              | MAC multiplexing                                    | 4 logical channel multiplexing |              |                              |                             |
| Layer 1      | TrCH type                                           | DSCH                           |              |                              |                             |
|              | TB sizes, bit                                       | 149                            |              |                              |                             |
|              | TFS                                                 | TF0, bits                      | 0x149        |                              |                             |
|              |                                                     | TF1, bits                      | 1x149        |                              |                             |
|              | TTI, ms                                             |                                | 40           |                              |                             |
|              | Coding type                                         |                                | CC 1/3       |                              |                             |
|              | CRC, bit                                            |                                | 16           |                              |                             |
|              | Max number of bits/TTI before rate matching         |                                | 519          |                              |                             |
|              | Max number of bits/radio frame before rate matching |                                | 130          |                              |                             |
|              | RM attribute                                        |                                | 155 to 165   |                              |                             |

#### 6.10.3.4.2.1.2.1.3 TFCS for DSCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20 (alt. 28)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| TFCS      | (256 kbps RAB, SHCCH, SRB for DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),<br>(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1)<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),<br>(TF5, TF0, TF0), (TF6, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0),<br>(TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF0, TF0, TF1),<br>(TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1),<br>(TF6, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1),<br>(TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1)) |

6.10.3.4.2.1.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

6.10.3.4.2.1.2.1.4.1 FACH transport channel configuration without DTCH

|                                                                               |                                                     |           |                                |                                                   |                         |                         |                         |                         |                         |
|-------------------------------------------------------------------------------|-----------------------------------------------------|-----------|--------------------------------|---------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Higher layer                                                                  | RAB/signalling RB                                   |           | SRB#0                          | SRB#1                                             | SRB#2                   | SRB#3                   | SRB#4                   | SRB#5                   | SRB#6                   |
|                                                                               | User of Radio Bearer                                |           | RRC                            | RRC                                               | RRC                     | NAS_DT<br>High prio     | NAS_DT<br>Low prio      | RRC                     | RRC                     |
| RLC                                                                           | Logical channel type                                |           | CCCH                           | DCCH                                              | DCCH                    | DCCH                    | DCCH                    | SHCCH                   | BCCH                    |
|                                                                               | RLC mode                                            |           | UM                             | UM                                                | AM                      | AM                      | AM                      | UM                      | TM                      |
|                                                                               | Payload sizes, bit                                  |           | 160                            | 136 or 120<br>(note)                              | 128                     | 128                     | 128                     | 160                     | 168                     |
|                                                                               | Max data rate, bps                                  |           | 32 000 (alt.<br>16 000)        | 27 200 or<br>24 000 (alt.<br>13 600 or<br>12 000) | 25 600 (alt.<br>12 800) | 25 600 (alt.<br>12 800) | 25 600 (alt.<br>12 800) | 32 000 (alt.<br>16 000) | 33 600 (alt.<br>16 800) |
|                                                                               | AMD/UMD/TrD PDU header, bit                         |           | 8                              | 8                                                 | 16                      | 16                      | 16                      | 8                       | 0                       |
| MAC                                                                           | MAC header, bit                                     |           | 3                              | 27 or 43                                          | 27                      | 27                      | 27                      | 3                       | 3                       |
|                                                                               | MAC multiplexing                                    |           | 7 logical channel multiplexing |                                                   |                         |                         |                         |                         |                         |
| Layer 1                                                                       | TrCH type                                           |           | FACH                           |                                                   |                         |                         |                         |                         |                         |
|                                                                               | TB sizes, bit                                       |           | 171                            |                                                   |                         |                         |                         |                         |                         |
|                                                                               | TFS                                                 | TF0, bits | 0x171                          |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF1, bits | 1x171                          |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF2, bits | 2x171                          |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF3, bits | 3x171(alt. N/A)                |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF4, bits | 4x171(alt. N/A)                |                                                   |                         |                         |                         |                         |                         |
|                                                                               | TTI, ms                                             |           | 20                             |                                                   |                         |                         |                         |                         |                         |
|                                                                               | Coding type                                         |           | TC                             |                                                   |                         |                         |                         |                         |                         |
|                                                                               | CRC, bit                                            |           | 16                             |                                                   |                         |                         |                         |                         |                         |
|                                                                               | Max number of bits/TTI after channel coding         |           | 2 256 (alt. 1 134)             |                                                   |                         |                         |                         |                         |                         |
|                                                                               | Max number of bits/radio frame before rate matching |           | 1 128 (alt. 567)               |                                                   |                         |                         |                         |                         |                         |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. |                                                     |           |                                |                                                   |                         |                         |                         |                         |                         |

## 6.10.3.4.2.1.2.1.4.2 FACH transport channel configuration with DTCH

|                                                                               |                                                     |           |                                   |                         |                                                   |                         |                         |                         |                         |                         |
|-------------------------------------------------------------------------------|-----------------------------------------------------|-----------|-----------------------------------|-------------------------|---------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Higher layer                                                                  | RAB/signalling RB                                   |           | RAB                               | SRB#0                   | SRB#1                                             | SRB#2                   | SRB#3                   | SRB#4                   | SRB#5                   | SRB#6                   |
|                                                                               | User of Radio Bearer                                |           | Interactive/<br>Background<br>RAB | RRC                     | RRC                                               | RRC                     | NAS_DT<br>High prio     | NAS_DT<br>Low prio      | RRC                     | RRC                     |
| RLC                                                                           | Logical channel type                                |           | DTCH                              | CCCH                    | DCCH                                              | DCCH                    | DCCH                    | DCCH                    | SHCCH                   | BCCH                    |
|                                                                               | RLC mode                                            |           | AM                                | UM                      | UM                                                | AM                      | AM                      | AM                      | UM                      | TM                      |
|                                                                               | Payload sizes, bit                                  |           | 320                               | 160                     | 136 or 120<br>(note)                              | 128                     | 128                     | 128                     | 160                     | 168                     |
|                                                                               | Max data rate, bps                                  |           | 32 000 (alt.<br>16 000)           | 32 000 (alt.<br>16 000) | 27 200 or<br>24 000 (alt.<br>13 600 or<br>12 000) | 25 600 (alt.<br>12 800) | 25 600 (alt.<br>12 800) | 25 600 (alt.<br>12 800) | 32 000 (alt.<br>16 000) | 33 600 (alt.<br>16 800) |
|                                                                               | AMD/UMD/TrD PDU header, bit                         |           | 16                                | 8                       | 8                                                 | 16                      | 16                      | 16                      | 8                       | 0                       |
| MAC                                                                           | MAC header, bit                                     |           | 27                                | 3                       | 27 or 43                                          | 27                      | 27                      | 27                      | 3                       | 3                       |
|                                                                               | MAC multiplexing                                    |           | 8 logical channel multiplexing    |                         |                                                   |                         |                         |                         |                         |                         |
| Layer 1                                                                       | TrCH type                                           |           | FACH                              |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | TB sizes, bit                                       |           | 171, 363                          |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | TFS                                                 | TF0, bits | 0x171                             |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF1, bits | 1x171                             |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF2, bits | 2x171                             |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF3, bits | 1x363                             |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF4, bits | 3x171 (alt N/A)                   |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF5, bits | 4x171 (alt. N/A)                  |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF6, bits | 2x363 (alt. N/A)                  |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | TTI, ms                                             |           | 20                                |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | Coding type                                         |           | TC                                |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | CRC, bit                                            |           | 16                                |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | Max number of bits/TTI after channel coding         |           | 2 286 (alt. 1 149)                |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | Max number of bits/radio frame before rate matching |           | 1 143 (alt. 575)                  |                         |                                                   |                         |                         |                         |                         |                         |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. |                                                     |           |                                   |                         |                                                   |                         |                         |                         |                         |                         |

## 6.10.3.4.2.1.2.1.5 TFCS for FACH

## 6.10.3.4.2.1.2.1.5.1 TFCS for FACH transport channel configuration without DTCH

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| TFCS size | 5 (alt. 3)                                                                 |
| TFCS      | FACH = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. FACH = (TF0), (TF1), (TF2)) |

## 6.10.3.4.2.1.2.1.5.2 TFCS for FACH transport channel configuration with DTCH

|           |                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------|
| TFCS size | 7 (alt. 4)                                                                                      |
| TFCS      | FACH = (TF0), (TF1), (TF2), (TF3), (TF4), (TF5), (TF6) (alt. FACH = (TF0), (TF1), (TF2), (TF3)) |

## 6.10.3.4.2.1.2.2 Physical channel parameters

## 6.10.3.4.2.1.2.2.1 Physical channel parameters for PDSCH

|       |                                      |                               |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble                             | 256 chips                     |
|       | Codes and time slots                 | SF16 x 8 codes x 2 time slots |
|       | Max. Number of data bits/radio frame | 4 400 bits                    |
|       | TFCI code word                       | 16 bits                       |
|       | Puncturing Limit                     | 0.44                          |

## 6.10.3.4.2.1.2.2.2 Physical channel parameters for SCCPCH

## 6.10.3.4.2.1.2.2.2.1 Physical channel parameters for SCCPCH without DTCH

|        |                                      |                                                                      |
|--------|--------------------------------------|----------------------------------------------------------------------|
| SCCPCH | Midamble                             | 512 chips                                                            |
|        | Codes and time slots                 | SF16 x 5 codes x 1 time slot<br>(alt. SF16 x 2 codes x 1 time slot ) |
|        | Max. Number of data bits/radio frame | 1 204 bits (alt. 480 bits)                                           |
|        | TFCI code word                       | 16 bits (alt. 8 bits)                                                |
|        | Puncturing Limit                     | 1 (alt. 0.84)                                                        |

## 6.10.3.4.2.1.2.2.2.2 Physical channel parameters for SCCPCH with DTCH

|        |                                      |                                                                      |
|--------|--------------------------------------|----------------------------------------------------------------------|
| SCCPCH | Midamble                             | 512 chips                                                            |
|        | Codes and time slots                 | SF16 x 5 codes x 1 time slot<br>(alt. SF16 x 2 codes x 1 time slot ) |
|        | Max. Number of data bits/radio frame | 1 204 bits (alt. 472 bits)                                           |
|        | TFCI code word                       | 16 bits                                                              |
|        | Puncturing Limit                     | 1 (alt. 0.80)                                                        |

## 6.10.3.4.2.2 Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

## 6.10.3.4.2.2.1 Uplink

See clause 6.10.3.4.2.1.1.

## 6.10.3.4.2.2.2 Downlink

## 6.10.3.4.2.2.2.1 Transport channel parameters

## 6.10.3.4.2.2.2.1.1 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

|              |                         |         |        |
|--------------|-------------------------|---------|--------|
| Higher layer | RAB/Signalling RB       | RAB     | SRB#5  |
| RLC          | Logical channel type    | DTCH    | SHCCH  |
|              | RLC mode                | AM      | UM     |
|              | Payload sizes, bit      | 320     | 160    |
|              | Max data rate, bps      | 384 000 | 16 000 |
|              | AMD/UMD PDU header, bit | 16      | 8      |

|         |                                                               |                      |                   |
|---------|---------------------------------------------------------------|----------------------|-------------------|
| MAC     | MAC header, bit                                               | 1                    | 1                 |
|         | MAC multiplexing                                              | N/A                  | N/A               |
| Layer 1 | TrCH type                                                     | DSCH                 | DSCH              |
|         | TB sizes, bit                                                 | 337                  | 169               |
|         | TFS                                                           | TF0, bits            | 0x337             |
|         |                                                               | TF1, bits            | 1x337             |
|         |                                                               | TF2, bits            | 2x337             |
|         |                                                               | TF3, bits            | 4x337             |
|         |                                                               | TF4, bits            | 8x337             |
|         |                                                               | TF5, bits            | 12x337            |
|         |                                                               | TF6, bits            | N/A (alt. 16x337) |
|         |                                                               | TF7, bits            | N/A (alt. 20x337) |
|         |                                                               | TF8, bits            | N/A (alt. 24x337) |
|         | TTI, ms                                                       | 10 (alt. 20)         | 10                |
|         | Coding type                                                   | TC                   | CC 1/2            |
|         | CRC, bit                                                      | 16                   | 16                |
|         | Max number of bits/TTI after channel coding                   | 12 720 (alt. 25 440) | 386               |
|         | Downlink: Max number of bits/radio frame before rate matching | 12 720 (alt. 12 720) | 386               |
|         | RM attribute                                                  | 135 to 175           | 230 to 250        |

#### 6.10.3.4.2.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

#### 6.10.3.4.2.2.1.3 TFCS for DSCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24 (alt. 36)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS      | (384 kbps RAB, SHCCH, SRBs for DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0),<br>(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1)<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0),<br>(TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0),<br>(TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0),<br>(TF8, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),<br>(TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1),<br>(TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1)) |

#### 6.10.3.4.2.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH (with & without DTCH)

See clause 6.10.3.4.2.1.2.1.4.

#### 6.10.3.4.2.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.5.

#### 6.10.3.4.2.2.2 Physical channel parameters

##### 6.10.3.4.2.2.2.1 Physical channel parameters for PDSCH

|       |                                      |                               |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble                             | 256 chips                     |
|       | Codes and time slots                 | SF16 x 8 codes x 3 time slots |
|       | Max. Number of data bits/radio frame | 6 608 bits (alt. 6 592 bits)  |
|       | TFCI code word                       | 16 bits (alt. 32 bits)        |
|       | Puncturing Limit                     | 0.48                          |

##### 6.10.3.4.2.2.2.2 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.

6.10.3.4.2.3 Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.3.1 Uplink

See clause 6.10.3.4.2.1.1.

6.10.3.4.2.3.2 Downlink

6.10.3.4.2.3.2.1 Transport channel parameters

6.10.3.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

|              |                                                               |            |                       |            |
|--------------|---------------------------------------------------------------|------------|-----------------------|------------|
| Higher layer | RAB/Signalling RB                                             |            | RAB                   | SRB#5      |
| RLC          | Logical channel type                                          |            | DTCH                  | SHCCH      |
|              | RLC mode                                                      |            | AM                    | UM         |
|              | Payload sizes, bit                                            |            | 640                   | 160        |
|              | Max data rate, bps                                            |            | 2 048 000             | 16 000     |
|              | AMD/UMD PDU header, bit                                       |            | 16                    | 8          |
| MAC          | MAC header, bit                                               |            | 1                     | 1          |
|              | MAC multiplexing                                              |            | N/A                   | N/A        |
| Layer 1      | TrCH type                                                     |            | DSCH                  | DSCH       |
|              | TB sizes, bit                                                 |            | 657                   | 169        |
|              | TFS                                                           | TF0, bits  | 0x657                 | 0x169      |
|              |                                                               | TF1, bits  | 1x657                 | 1x169      |
|              |                                                               | TF2, bits  | 2x657                 | N/A        |
|              |                                                               | TF3, bits  | 4x657                 | N/A        |
|              |                                                               | TF4, bits  | 8x657                 | N/A        |
|              |                                                               | TF5, bits  | 12x657                | N/A        |
|              |                                                               | TF6, bits  | 16x657                | N/A        |
|              |                                                               | TF7, bits  | 20x657                | N/A        |
|              |                                                               | TF8, bits  | 24x657                | N/A        |
|              |                                                               | TF9, bits  | 28x657                | N/A        |
|              |                                                               | TF10, bits | 30x657 (alt. 32x657)  | N/A        |
|              |                                                               | TF11, bits | N/A (alt. 36x657)     | N/A        |
|              |                                                               | TF12, bits | N/A (alt. 40x657)     | N/A        |
|              |                                                               | TF13, bits | N/A (alt. 44x657)     | N/A        |
|              |                                                               | TF14, bits | N/A (alt. 48x657)     | N/A        |
|              |                                                               | TF15, bits | N/A (alt. 52x657)     | N/A        |
|              |                                                               | TF16, bits | N/A (alt. 56x657)     | N/A        |
|              |                                                               | TF17, bits | N/A (alt. 60x657)     | N/A        |
|              |                                                               | TF18, bits | N/A (alt. 64x657)     | N/A        |
|              | TTI, ms                                                       |            | 10 (alt. 20)          | 10         |
|              | Coding type                                                   |            | TC                    | CC 1/2     |
|              | CRC, bit                                                      |            | 16                    | 16         |
|              | Max number of bits/TTI after channel coding                   |            | 60 624 (alt. 129 330) | 386        |
|              | Downlink: Max number of bits/radio frame before rate matching |            | 60 624 (alt. 64 665)  | 386        |
|              | RM attribute                                                  |            | 135 to 175            | 230 to 250 |

6.10.3.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

6.10.3.4.2.3.2.1.3 TFCS for DSCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 41 (alt.76)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS      | (2 048 kbps RAB, SHCCH, SRBs for DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),<br>(TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10,<br>TF0, TF0),<br>(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0),<br>(TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF9, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1),<br>(TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1)<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),<br>(TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0),<br>(TF10, TF0, TF0), (TF11, TF0, TF0), (TF12, TF0, TF0), (TF13, TF0, TF0), (TF14, TF0, TF0),<br>(TF15, TF0, TF0), (TF16, TF0, TF0), (TF17, TF0, TF0), (TF18, TF0, TF0),<br>(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0),<br>(TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0),<br>(TF10, TF1, TF0), (TF11, TF1, TF0), (TF12, TF1, TF0), (TF13, TF1, TF0), (TF14, TF1, TF0),<br>(TF15, TF1, TF0), (TF16, TF1, TF0), (TF17, TF1, TF0), (TF18, TF1, TF0), (TF0, TF0, TF1),<br>(TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1),<br>(TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF9, TF0, TF1), (TF10, TF0, TF1),<br>(TF11, TF0, TF1), (TF12, TF0, TF1), (TF13, TF0, TF1), (TF14, TF0, TF1), (TF15, TF0, TF1),<br>(TF16, TF0, TF1), (TF17, TF0, TF1), (TF18, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1),<br>(TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1),<br>(TF10, TF1, TF1), (TF11, TF1, TF1), (TF12, TF1, TF1), (TF13, TF1, TF1), (TF14, TF1, TF1),<br>(TF15, TF1, TF1), (TF16, TF1, TF1), (TF17, TF1, TF1), (TF18, TF1, TF1)) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.10.3.4.2.3.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.2.1.2.1.4.1.

#### 6.10.3.4.2.3.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.4.5.1.

#### 6.10.3.4.2.3.2.2 Physical channel parameters

##### 6.10.3.4.2.3.2.2.1 Physical channel parameters for PDSCH

|       |                                      |                                 |
|-------|--------------------------------------|---------------------------------|
| PDSCH | Midamble                             | 256 chips                       |
|       | Codes and time slots                 | SF16 x 12 codes x 11 time slots |
|       | Max. Number of data bits/radio frame | 36 400 bits                     |
|       | TFCI code word                       | 32 bits                         |
|       | Puncturing Limit                     | 0.56 (alt. 0.52)                |

##### 6.10.3.4.2.3.2.2.2 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

#### 6.10.3.4.2.4 Interactive or background / UL: 384 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

##### 6.10.3.4.2.4.1 Uplink

##### 6.10.3.4.2.4.1.1 Transport channel parameters

##### 6.10.3.4.2.4.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

| Higher layer | RAB/Signalling RB       | RAB            | SRB#5              |
|--------------|-------------------------|----------------|--------------------|
| RLC          | Logical channel type    | DTCH           | SHCCH              |
|              | RLC mode                | AM             | TM                 |
|              | Payload sizes, bit      | 320 (alt. 128) | 168                |
|              | Max data rate, bps      | 384 000        | 16 800             |
|              | AMD/TrD PDU header, bit | 16             | 0                  |
| MAC          | MAC header, bit         | 1              | 1                  |
|              | MAC multiplexing        | N/A            | N/A                |
| Layer 1      | TrCH type               | USCH           | USCH               |
|              | TB sizes, bit           | 337 (alt. 145) | 169                |
|              | TFS                     | TF0, bits      | 0x337 (alt. 0x145) |
|              |                         | TF1, bits      | 1x337 (alt. 1x145) |

|  |                                                     |           |                      |            |
|--|-----------------------------------------------------|-----------|----------------------|------------|
|  |                                                     | TF2, bits | 2x337 (alt. 5x145)   | N/A        |
|  |                                                     | TF3, bits | 4x337 (alt. 10x145)  | N/A        |
|  |                                                     | TF4, bits | 8x337 (alt. 20x145)  | N/A        |
|  |                                                     | TF5, bits | 12x337 (alt. 30x145) | N/A        |
|  |                                                     | TF6, bits | 16x337 (alt. 40x145) | N/A        |
|  |                                                     | TF7, bits | 20x337 (alt. 50x145) | N/A        |
|  |                                                     | TF8, bits | 24x337 (alt. 60x145) | N/A        |
|  | TTI, ms                                             |           | 20                   | 10         |
|  | Coding type                                         |           | TC                   | CC 1/2     |
|  | CRC, bit                                            |           | 16                   | 16         |
|  | Max number of bits/TTI after channel coding         |           | 25 440 (alt. 29 004) | 386        |
|  | Max number of bits/radio frame before rate matching |           | 12 720 (alt. 14 502) | 386        |
|  | RM attribute                                        |           | 135 to 175           | 230 to 250 |

#### 6.10.3.4.2.4.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.2.

#### 6.10.3.4.2.4.1.1.3 TFCS for USCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TFCS      | (384 kbps RAB, SHCCH, SRBs for DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),<br>(TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0),<br>(TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0),<br>(TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1),<br>(TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1),<br>(TF7, TF0, TF1), (TF8, TF0, TF1)<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1),<br>(TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1) |

#### 6.10.3.4.2.4.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

See clause 6.10.3.4.2.1.1.1.4.

#### 6.10.3.4.2.4.1.2 Physical channel parameters

##### 6.10.3.4.2.4.1.2.1 Physical channel parameters for PUSCH

|       |                                      |                             |
|-------|--------------------------------------|-----------------------------|
| PUSCH | Midamble                             | 512 chips                   |
|       | Codes and time slots                 | SF1 x 1 code x 2 time slots |
|       | Max. Number of data bits/radio frame | 7 264 bits                  |
|       | TFCI code word                       | 32 bits                     |
|       | TPC                                  | 2 bits                      |
|       | Puncturing Limit                     | 0.52 (alt. 0.44)            |

##### 6.10.3.4.2.4.1.2.2 Physical channel parameters for PRACH

See clause 6.10.3.4.2.1.1.2.2.

#### 6.10.3.4.2.4.2 Downlink

##### 6.10.3.4.2.4.2.1 Transport channel parameters

See clause 6.10.3.4.2.3.2.1.

##### 6.10.3.4.2.4.2.2 Physical channel parameters

##### 6.10.3.4.2.4.2.2.1 Physical channel parameters for PDSCH

|       |          |           |
|-------|----------|-----------|
| PDSCH | Midamble | 256 chips |
|-------|----------|-----------|

|  |                                      |                              |
|--|--------------------------------------|------------------------------|
|  | Codes and time slots                 | SF1 x 1 codes x 9 time slots |
|  | Max. Number of data bits/radio frame | 39 712 bits                  |
|  | TFCI code word                       | 32 bits                      |
|  | Puncturing Limit                     | 0.64 (alt. 0.60)             |

#### 6.10.3.4.2.4.2.2.2 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

#### 6.10.3.4.3 Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

6.10.3.4.3.1 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps  
SRBs for DCCH + Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL:  
16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH SHCCH and  
BCCH

6.10.3.4.3.1.1 Uplink

6.10.3.4.3.1.1.1 Transport channel parameters

6.10.3.4.3.1.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.3.1.1.1.2 Transport channel parameters for UL SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.3.1.1.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.1.1.3.

6.10.3.4.3.1.1.1.4 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB  
and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

6.10.3.4.3.1.1.1.5 TFCS for USCH

|           |                                                                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                 |
| TFCS      | (64 kbps RAB, SHCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1),<br>(TF3, TF1), (TF4, TF1) |

6.10.3.4.3.1.1.1.6 Transport channel parameters for SRB for CCCH and UL SRB for SHCCH mapped on  
RACH

|              |                                                     |                                |        |
|--------------|-----------------------------------------------------|--------------------------------|--------|
| Higher layer | RAB/signalling RB                                   | SRB#0                          | SRB#5  |
|              | User of Radio Bearer                                | RRC                            | RRC    |
| RLC          | Logical channel type                                | CCCH                           | SHCCH  |
|              | RLC mode                                            | TM                             | TM     |
|              | Payload sizes, bit                                  | 168                            | 168    |
|              | Max data rate, bps                                  | 16 800                         | 16 800 |
|              | TrD PDU header, bit                                 | 0                              | 0      |
| MAC          | MAC header, bit                                     | 2                              | 2      |
|              | MAC multiplexing                                    | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                           | RACH                           |        |
|              | TB sizes, bit                                       | 170                            |        |
|              | TFS                                                 | 1x170                          |        |
|              | TTI, ms                                             | 10                             |        |
|              | Coding type                                         | CC 1/2                         |        |
|              | CRC, bit                                            | 16                             |        |
|              | Max number of bits/TTI after channel coding         | 388                            |        |
|              | Max number of bits/radio frame before rate matching | 388                            |        |

## 6.10.3.4.3.1.1.2 Physical channel parameters

## 6.10.3.4.3.1.1.2.1 Physical channel parameters for DPCH

See clause 6.10.3.4.1.4.1.2.

## 6.10.3.4.3.1.1.2.2 Physical channel parameters for PUSCH

|       |                                      |                            |
|-------|--------------------------------------|----------------------------|
| PUSCH | Midamble                             | 512 chips                  |
|       | Codes and time slots                 | SF2 x 1 code x 1 time slot |
|       | Max. Number of data bits/radio frame | 1 808 bits                 |
|       | TFCI code word                       | 16 bits                    |
|       | TPC                                  | 2 bits                     |
|       | Puncturing Limit                     | 0.76 (alt. 0.68)           |

## 6.10.3.4.3.1.1.2.3 Physical channel parameters for PRACH

See clause 6.10.3.4.2.1.1.2.2.

## 6.10.3.4.3.1.2 Downlink

## 6.10.3.4.3.1.2.1 Transport channel parameters

## 6.10.3.4.3.1.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

## 6.10.3.4.3.1.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.3.1.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

## 6.10.3.4.3.1.2.1.4 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

## 6.10.3.4.3.1.2.1.5 TFCS for DSCH

|           |                                                                                                                                                                                                                                                                                                                                         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10 (alt. 14)                                                                                                                                                                                                                                                                                                                            |
| TFCS      | (256 kbps RAB, SHCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1),<br>(TF3, TF1), (TF4, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1)) |

## 6.10.3.4.3.1.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

|              |                         |                                |                      |                      |
|--------------|-------------------------|--------------------------------|----------------------|----------------------|
| Higher layer | RAB/Signalling RB       | SRB#0                          | SRB#5                | SRB#6                |
|              | User of Radio Bearer    | RRC                            | RRC                  | RRC                  |
| RLC          | Logical channel type    | CCCH                           | SHCCH                | BCCH                 |
|              | RLC mode                | UM                             | UM                   | TM                   |
|              | Payload sizes, bit      | 160                            | 160                  | 168                  |
|              | Max data rate, bps      | 32 000 (alt. 16 000)           | 32 000 (alt. 16 000) | 33 600 (alt. 16 800) |
|              | UMD/TrD PDU header, bit | 8                              | 8                    | 0                    |
| MAC          | MAC header, bit         | 3                              |                      |                      |
|              | MAC multiplexing        | 3 logical channel multiplexing |                      |                      |
| Layer 1      | TrCH type               | FACH                           |                      |                      |
|              | TB sizes, bit           | 171                            |                      |                      |
|              | TFS                     | TF0, bits                      | 0x171                |                      |
|              |                         | TF1, bits                      | 1x171                |                      |

|  |                                                     |           |                    |
|--|-----------------------------------------------------|-----------|--------------------|
|  |                                                     | TF2, bits | 2x171              |
|  |                                                     | TF3, bits | 3x171 (alt. N/A)   |
|  |                                                     | TF4, bits | 4x171 (alt. N/A)   |
|  | TTI, ms                                             |           | 20                 |
|  | Coding type                                         |           | TC                 |
|  | CRC, bit                                            |           | 16                 |
|  | Max number of bits/TTI after channel coding         |           | 2 256 (alt. 1 134) |
|  | Max number of bits/radio frame before rate matching |           | 1 128 (alt 567)    |

## 6.10.3.4.3.1.2.1.7 TFCS for FACH

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| TFCS size | 5 (alt. 3)                                                                 |
| TFCS      | FACH = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. FACH = (TF0), (TF1), (TF2)) |

## 6.10.3.4.3.1.2.2 Physical channel parameters

## 6.10.3.4.3.1.2.2.1 Physical channel parameters for DPCH

See clause 6.10.3.4.1.4.2.2.

## 6.10.3.4.3.1.2.2.2 Physical channel parameters for PDSCH

|       |                                      |                               |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble                             | 256 chips                     |
|       | Codes and time slots                 | SF16 x 8 codes x 2 time slots |
|       | Max. Number of data bits/radio frame | 4 400 bits                    |
|       | TFCI code word                       | 16 bits                       |
|       | Puncturing Limit                     | 0.48                          |

## 6.10.3.4.3.1.2.2.3 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

6.10.3.4.3.2 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps  
SRBs for DCCH + Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL:  
16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and  
BCCH

## 6.10.3.4.3.2.1 Uplink

See clause 6.10.3.4.3.1.1.

## 6.10.3.4.3.2.2 Downlink

## 6.10.3.4.3.2.2.1 Transport channel parameters

## 6.10.3.4.3.2.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

## 6.10.3.4.3.2.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.3.2.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.3.2.2.1.4 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB  
and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.2.1.1.

## 6.10.3.4.3.2.2.1.5 TFCS for DSCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12 (alt. 18)                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS      | (384 kbps RAB, SHCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1)) |

#### 6.10.3.4.3.2.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.3.1.2.1.6.

#### 6.10.3.4.3.2.2.1.7 TFCS for FACH

See clause 6.10.3.4.3.1.2.1.7.

#### 6.10.3.4.3.2.2.2 Physical channel parameters

##### 6.10.3.4.3.2.2.2.1 Physical channel parameters for downlink DPCH

See clause 6.10.3.4.1.4.2.2.

##### 6.10.3.4.3.2.2.2.2 Physical channel parameters for PDSCH

|       |                                      |                               |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble                             | 256 chips                     |
|       | Codes and time slots                 | SF16 x 8 codes x 3 time slots |
|       | Max. Number of data bits/radio frame | 6 608 bits                    |
|       | TFCI code word                       | 16 bits                       |
|       | Puncturing Limit                     | 0.48                          |

##### 6.10.3.4.3.2.2.2.3 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

#### 6.10.3.4.3.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

##### 6.10.3.4.3.3.1 Uplink

See clause 6.10.3.4.3.1.1.

##### 6.10.3.4.3.3.2 Downlink

##### 6.10.3.4.3.3.2.1 Transport channel parameters

##### 6.10.3.4.3.3.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

##### 6.10.3.4.3.3.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.10.3.4.3.3.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

##### 6.10.3.4.3.3.2.1.4 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.3.2.1.1.

## 6.10.3.4.3.3.2.1.5 TFCS for DSCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 22 (alt. 38)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TFCS      | (2 048 kbps RAB, SHCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0), (TF9, TF0), (TF10, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1), (TF9, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0),<br>(TF16, TF0), (TF17, TF0), (TF18, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, TF1),<br>(TF16, TF1), (TF17, TF1), (TF18, TF1)) |

## 6.10.3.4.3.3.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.3.1.2.1.6.

## 6.10.3.4.3.3.2.1.7 TFCS for FACH

See clause 6.10.3.4.3.1.2.1.7.

## 6.10.3.4.3.3.2.2 Physical channel parameters

## 6.10.3.4.3.3.2.2.1 Physical channel parameters for downlink DPCH

See clause 6.10.3.4.1.4.2.2.

## 6.10.3.4.3.3.2.2.2 Physical channel parameters for PDSCH

|               |                                      |                            |
|---------------|--------------------------------------|----------------------------|
| DPCH Downlink | Midamble                             | 256 chips                  |
|               | Codes and time slots                 | SF1 x 1 code x 7 time slot |
|               | Max. Number of data bits/radio frame | 30 896 bits (alt. 30 880)  |
|               | TFCI code word                       | 16 bits (alt. 32 bits)     |
|               | Puncturing limit                     | 0.48 (alt. 0.44)           |

## 6.10.3.4.3.3.2.2.3 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

## 6.10.3.4.4 Combinations on SCCPCH

## 6.10.3.4.4.1 Stand-alone signalling RB for PCCH

## 6.10.3.4.4.1.1 Transport channel parameters

## 6.10.3.4.4.1.1.1 Transport channel parameter of SRB for PCCH

|              |                      |           |                     |
|--------------|----------------------|-----------|---------------------|
| Higher layer | RAB/signalling RB    |           | SRB                 |
|              | User of Radio Bearer |           | RRC                 |
| RLC          | Logical channel type |           | PCCH                |
|              | RLC mode             |           | TM                  |
|              | Payload sizes, bit   |           | 240 (alt. 80)       |
|              | Max data rate, bps   |           | 12 000 (alt. 8 000) |
|              | TrD PDU header, bit  |           | 0                   |
| MAC          | MAC header, bit      |           | 0                   |
|              | MAC multiplexing     |           | N/A                 |
| Layer 1      | TrCH type            |           | PCH                 |
|              | TB sizes, bit        |           | 240 (alt. 80)       |
|              | TFS                  | TF0, bts  | 0x240 (alt. 0x80)   |
|              |                      | TF1, bits | 1x240 (alt. 1x80)   |
|              |                      | TF2, bits | N/A (alt. 2x80)     |
|              | TTI, ms              |           | 20                  |

|  |                                                     |                |
|--|-----------------------------------------------------|----------------|
|  | Coding type                                         | CC 1/2         |
|  | CRC, bit                                            | 16             |
|  | Max number of bits/TTI before rate matching         | 528 (alt. 400) |
|  | Max number of bits/radio frame before rate matching | 264 (alt. 200) |
|  | RM attribute                                        | 210 to 250     |

## 6.10.3.4.4.1.1.2 TFCS

|           |                                                         |
|-----------|---------------------------------------------------------|
| TFCS size | 2 (alt. 3)                                              |
| TFCS      | SRBs for PCCH = (TF0), (TF1) (alt. (TF0), (TF1), (TF2)) |

## 6.10.3.4.4.1.2 Physical channel parameters

|         |                                      |                                                                    |
|---------|--------------------------------------|--------------------------------------------------------------------|
| S-CCPCH | Midamble                             | 512 chips                                                          |
|         | Codes and time slots                 | SF16 x 2 codes x 1 time slot<br>(alt. SF16 x 1 code x 1 time slot) |
|         | Max. Number of data bits/radio frame | 480 bits (alt. 236 bits)                                           |
|         | TFCI code word                       | 8 bits                                                             |
|         | Puncturing limit                     | 1                                                                  |

## 6.10.3.4.4.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

## 6.10.3.4.4.2.1 Transport channel parameters

## 6.10.3.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

|              |                                                     |           |                             |
|--------------|-----------------------------------------------------|-----------|-----------------------------|
| Higher layer | RAB/signalling RB                                   |           | RAB                         |
|              | User of Radio Bearer                                |           | Interactive/ Background RAB |
| RLC          | Logical channel type                                |           | DTCH                        |
|              | RLC mode                                            |           | AM                          |
|              | Payload sizes, bit                                  |           | 320                         |
|              | Max data rate, bps                                  |           | 32 000 (alt. 16 000)        |
|              | AMD PDU header, bit                                 |           | 16                          |
| MAC          | MAC header, bit                                     |           | 27                          |
|              | MAC multiplexing                                    |           | N/A                         |
| Layer 1      | TrCH type                                           |           | FACH                        |
|              | TB sizes, bit                                       |           | 363                         |
|              | TFS                                                 | TF0, bits | 0 x363                      |
|              |                                                     | TF1, bits | 1x363                       |
|              |                                                     | TF2, bits | 2x363 (alt. N/A)            |
|              | TTI, ms                                             |           | 20                          |
|              | Coding type                                         |           | TC                          |
|              | CRC, bit                                            |           | 16                          |
|              | Max number of bits/TTI before rate matching         |           | 2 286 (alt. 1 149)          |
|              | Max number of bits/radio frame before rate matching |           | 1 143 (alt. 575)            |
|              | RM attribute                                        |           | 110 to 150                  |

## 6.10.3.4.4.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

|              |                      |       |                      |       |                     |                    |       |
|--------------|----------------------|-------|----------------------|-------|---------------------|--------------------|-------|
| Higher layer | RAB/signalling RB    | SRB#0 | SRB#1                | SRB#2 | SRB#3               | SRB#4              | SRB#5 |
|              | User of Radio Bearer | RRC   | RRC                  | RRC   | NAS_DT<br>High_prio | NAS_DT<br>Low_prio | RRC   |
| RLC          | Logical channel type | CCCH  | DCCH                 | DCCH  | DCCH                | DCCH               | BCCH  |
|              | RLC mode             | UM    | UM                   | AM    | AM                  | AM                 | TM    |
|              | Payload sizes, bit   | 160   | 136 or 120<br>(note) | 128   | 128                 | 128                | 168   |



|                                                                               |                                                     |                                |                                                      |                            |                            |                            |                            |
|-------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------|------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
|                                                                               | Max data rate, bps                                  | 32 000<br>(alt.<br>16 000)     | 27 200 or<br>24 000<br>(alt.<br>24 000 or<br>12 000) | 25 600<br>(alt.<br>12 800) | 25 600<br>(alt.<br>12 800) | 25 600<br>(alt.<br>12 800) | 33 600<br>(alt.<br>16 800) |
|                                                                               | AMD/UMD/TrD PDU header, bit                         | 8                              | 8                                                    | 16                         | 16                         | 16                         | 0                          |
| MAC                                                                           | MAC header, bit                                     | 3                              | 27 or 43                                             | 27                         | 27                         | 27                         | 3                          |
|                                                                               | MAC multiplexing                                    | 6 logical channel multiplexing |                                                      |                            |                            |                            |                            |
| Layer 1                                                                       | TrCH type                                           |                                | FACH                                                 |                            |                            |                            |                            |
|                                                                               | TB sizes, bit                                       |                                | 171                                                  |                            |                            |                            |                            |
|                                                                               | TFS                                                 | TF0, bits                      | 0x171                                                |                            |                            |                            |                            |
|                                                                               |                                                     | TF1, bits                      | 1x171                                                |                            |                            |                            |                            |
|                                                                               |                                                     | TF2, bits                      | 2x171                                                |                            |                            |                            |                            |
|                                                                               |                                                     | TF3, bits                      | 3x171 (alt. N/A)                                     |                            |                            |                            |                            |
|                                                                               |                                                     | TF4, bits                      | 4x171 (alt. N/A)                                     |                            |                            |                            |                            |
|                                                                               | TTI, ms                                             |                                | 20                                                   |                            |                            |                            |                            |
|                                                                               | Coding type                                         |                                | TC                                                   |                            |                            |                            |                            |
|                                                                               | CRC, bit                                            |                                | 16                                                   |                            |                            |                            |                            |
|                                                                               | Max number of bits/TTI before rate matching         |                                | 2 256 (alt. 1 134)                                   |                            |                            |                            |                            |
|                                                                               | Max number of bits/radio frame before rate matching |                                | 1 128 (alt. 567)                                     |                            |                            |                            |                            |
| RM attribute                                                                  |                                                     | 200 to 240                     |                                                      |                            |                            |                            |                            |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. |                                                     |                                |                                                      |                            |                            |                            |                            |

## 6.10.3.4.4.2.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                                                |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 9 (alt. 4)                                                                                                                                                                                                                                                                                                                     |
| TFCS      | (32kbps RAB, SRBs for CCCH/DCCH/BCCH) =<br>(TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2),<br>(TF2, TF0)<br>(alt. (TF0, TF0), (TF0, TF1), (TF0, TF2),<br>(TF1, TF0))                                                                                                           |
| NOTE:     | First TFCS applies when the alternative for the 32 kbps RAB and the alternative for the SRBs for CCCH/DCCH/BCCH are both not configured. The alt. TFCS applies when both the alt. for the 32 kbps RAB and the alt. for the SRBs for CCCH/DCCH/BCCH are configured. All other combinations of these alternatives are not valid. |

## 6.10.3.4.4.2.2 Physical channel parameters

|         |                                      |                                                                     |
|---------|--------------------------------------|---------------------------------------------------------------------|
| S-CCPCH | Midamble                             | 512 chips                                                           |
|         | Codes and time slots                 | SF16 x 5 codes x 1 time slot<br>(alt. SF16 x 2 codes x 1 time slot) |
|         | Max. Number of data bits/radio frame | 1 204 bits (alt. 472)                                               |
|         | TFCI code word                       | 16 bits                                                             |
|         | Puncturing limit                     | 0.60 (alt. 0.48)                                                    |

## 6.10.3.4.4.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

## 6.10.3.4.4.2a.1 Transport channel parameters

## 6.10.3.4.4.2a.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB

|              |                      |                            |                            |
|--------------|----------------------|----------------------------|----------------------------|
| Higher layer | RAB/Signalling RB    | RAB                        | RAB                        |
|              | User of Radio Bearer | Interactive/Background RAB | Interactive/Background RAB |
| RLC          | Logical channel type | DTCH                       | DTCH                       |
|              | RLC mode             | AM                         | AM                         |
|              | Payload sizes, bit   | 320                        | 320                        |
|              | Max data rate, bps   | 32 000 (alt. 16 000)       | 32 000 (alt. 16 000)       |
|              | AMD PDU header, bit  | 16                         | 16                         |
| MAC          | MAC header, bit      | 27                         | 27                         |

|         |                                                     |           |                                |  |
|---------|-----------------------------------------------------|-----------|--------------------------------|--|
| Layer 1 | MAC multiplexing                                    |           | 2 logical channel multiplexing |  |
|         | TrCH type                                           |           | FACH                           |  |
|         | TB sizes, bit                                       |           | 363                            |  |
|         | TFS                                                 | TF0, bits | 0x363                          |  |
|         |                                                     | TF1, bits | 1x363                          |  |
|         |                                                     | TF2, bits | 2x363 (alt. N/A)               |  |
|         | TTI, ms                                             |           | 20                             |  |
|         | Coding type                                         |           | TC                             |  |
|         | CRC, bit                                            |           | 16                             |  |
|         | Max number of bits/TTI before rate matching         |           | 2 286 (alt. 1 149)             |  |
|         | Max number of bits/radio frame before rate matching |           | 1 143 (alt. 575)               |  |
|         | RM attribute                                        |           | 110 to 150                     |  |

#### 6.10.3.4.4.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2.

#### 6.10.3.4.4.2a.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                                                  |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 9 (alt. 4)                                                                                                                                                                                                                                                                                                                       |
| TFCS      | (32kbps RAB + 32kbps RAB, SRBs for CCCH/DCCH/BCCH) =<br>(TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2),<br>(TF2, TF0)<br>(alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0))                                                                                                   |
| NOTE:     | First TFCS applies when the alternative for the 32 kbps RABs and the alternative for the SRBs for CCCH/DCCH/BCCH are both not configured. The alt. TFCS applies when both the alt. for the 32 kbps RABs and the alt. for the SRBs for CCCH/DCCH/BCCH are configured. All other combinations of these alternatives are not valid. |

#### 6.10.3.4.4.2a.2 Physical channel parameters

|         |                                      |                                                                     |
|---------|--------------------------------------|---------------------------------------------------------------------|
| S-CCPCH | Midamble                             | 512 chips                                                           |
|         | Codes and time slots                 | SF16 x 5 codes x 1 time slot<br>(alt. SF16 x 2 codes x 1 time slot) |
|         | Max. Number of data bits/radio frame | 1 204 bits (alt. 472)                                               |
|         | TFCI code word                       | 16 bits                                                             |
|         | Puncturing limit                     | 0.60 (alt. 0.48)                                                    |

#### 6.10.3.4.4.2b SRBs for CCCH + SRB for DCCH + SRB for BCCH

##### 6.10.3.4.4.2b.1 Transport channel parameters

##### 6.10.3.4.4.2b.1.1 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2.

##### 6.10.3.4.4.2b.1.2 TFCS

|           |                                                                                             |
|-----------|---------------------------------------------------------------------------------------------|
| TFCS size | 5 (alt. 3)                                                                                  |
| TFCS      | (SRBs for CCCH/DCCH/BCCH) =<br>(TF0), (TF1), (TF2), (TF3), (TF4) (alt. (TF0), (TF1), (TF2)) |

#### 6.10.3.4.4.2b.2 Physical channel parameters

|         |                                      |                                                                     |
|---------|--------------------------------------|---------------------------------------------------------------------|
| S-CCPCH | Midamble                             | 512 chips                                                           |
|         | Codes and time slots                 | SF16 x 5 codes x 1 time slot<br>(alt. SF16 x 2 codes x 1 time slot) |
|         | Max. Number of data bits/radio frame | 1 204 bits (alt. 480 bits)                                          |
|         | TFCI code word                       | 16 bits (alt. 8 bits)                                               |

|  |                  |               |
|--|------------------|---------------|
|  | Puncturing limit | 1 (alt. 0.84) |
|--|------------------|---------------|

6.10.3.4.4.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.3.1 Transport channel parameters

6.10.3.4.4.3.1.1 Transport channel parameters for Interactive/Background 32 kbps RAB

See clause 6.10.3.4.4.2.1.1.

6.10.3.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.10.3.4.4.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2.

6.10.3.4.4.3.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30 (alt. 8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (32 kbps RAB, SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) =<br>(TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF0, TF2), (TF0, TF0, TF3), (TF0, TF0, TF4), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, TF1, TF3), (TF0, TF1, TF4), (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF0, TF2), (TF1, TF0, TF3), (TF1, TF0, TF4), (TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF1, TF2), (TF1, TF1, TF3), (TF1, TF1, TF4), (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF0, TF2), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF1, TF2), (TF2, TF1, TF3), (TF2, TF1, TF4)<br>(alt. (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF0, TF2), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF2, TF0), (TF0, TF2, TF1), (TF1, TF0, TF0)) |
| NOTE:     | Alt. TFCS applies when alts for 32 kbps RAB, SRB for PCCH, and SRBs for CCCH/ DCCH/ BCCH are all configured.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

6.10.3.4.4.3.2 Physical channel parameters

|                                                                                                 |                                      |                                                                     |
|-------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|
| S-CCPCH                                                                                         | Midamble                             | 512 chips                                                           |
|                                                                                                 | Codes and time slots                 | SF16 x 8 codes x 1 time slot<br>(alt. SF16 x 2 codes x 1 time slot) |
|                                                                                                 | Max. Number of data bits/radio frame | 1 936 bits (alt. 472 bits)                                          |
|                                                                                                 | TFCI code word                       | 16 bits                                                             |
|                                                                                                 | Puncturing limit                     | 0.52 (alt. 0.56)                                                    |
| NOTE: Alt. applies when alts for 32 kbps RAB and SRBs for CCCH/ DCCH/ BCCH are both configured. |                                      |                                                                     |

6.10.3.4.4.3a SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.3a.1 Transport channel parameters

6.10.3.4.4.3a.1.1 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.10.3.4.4.3a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2.

6.10.3.4.4.3a.1.3 TFCS

|           |                                                                                                                                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10 (alt.7)                                                                                                                                                                                                                                                         |
| TFCS      | (SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) =<br>(TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2), (TF1, TF3), (TF1, TF4)<br>(alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0), (TF1, TF1), (TF2, TF0), (TF2, TF1)) |
| NOTE:     | Alt. TFCS applies when alts for SRB for PCCH and SRBs for CCCH/ DCCH/ BCCH are both configured.                                                                                                                                                                    |

## 6.10.3.4.4.3a.2 Physical channel parameters

|                                                                          |                                      |                                                                     |
|--------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|
| S-CCPCH                                                                  | Midamble                             | 512 chips                                                           |
|                                                                          | Codes and time slots                 | SF16 x 5 codes x 1 time slot<br>(alt. SF16 x 2 codes x 1 time slot) |
|                                                                          | Max. Number of data bits/radio frame | 1 204 bits (alt. 480 bits)                                          |
|                                                                          | TFCI code word                       | 16 bits (alt. 8 bits)                                               |
|                                                                          | Puncturing limit                     | 0.84 (alt. 0.84)                                                    |
| NOTE: Alt. applies when alt for SRBs for CCCH/ DCCH/ BCCH is configured. |                                      |                                                                     |

## 6.10.3.4.4.4 RB for CTCH + SRB for CCCH + SRB for BCCH

## 6.10.3.4.4.4.1 Transport channel parameters

## 6.10.3.4.4.4.1.1 Transport channel parameters of RB for CTCH

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/signalling RB                                   |           | N/A        |
|              | User of Radio Bearer                                |           | BMC        |
| RLC          | Logical channel type                                |           | CTCH       |
|              | RLC mode                                            |           | UM         |
|              | Payload sizes, bit                                  |           | 152        |
|              | Max data rate, bps                                  |           | 15 200     |
|              | UMD PDU header, bit                                 |           | 8          |
| MAC          | MAC header, bit                                     |           | 3          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | FACH       |
|              | TB sizes, bit                                       |           | 163        |
|              | TFS                                                 | TF0, bits | 0x163      |
|              |                                                     | TF1, bits | 1x163      |
|              |                                                     | TF2, bits | 2x163      |
|              | TTI, ms                                             |           | 20         |
|              | Coding type                                         |           | CC 1/3     |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI before rate matching         |           | 1 098      |
|              | Max number of bits/radio frame before rate matching |           | 549        |
|              | RM attribute                                        |           | 200 to 240 |

## 6.10.3.4.4.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

|              |                                                     |           |                                |        |
|--------------|-----------------------------------------------------|-----------|--------------------------------|--------|
| Higher layer | RAB/signalling RB                                   |           | SRB#0                          | SRB#5  |
|              | User of Radio Bearer                                |           | RRC                            | RRC    |
| RLC          | Logical channel type                                |           | CCCH                           | BCCH   |
|              | RLC mode                                            |           | UM                             | TM     |
|              | Payload sizes, bit                                  |           | 160                            | 168    |
|              | Max data rate, bps                                  |           | 16 000                         | 16 800 |
|              | AMD/UMD/TrD PDU header, bit                         |           | 8                              | 0      |
| MAC          | MAC header, bit                                     |           | 3                              | 3      |
|              | MAC multiplexing                                    |           | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                           |           | FACH                           |        |
|              | TB sizes, bit                                       |           | 171                            |        |
|              | TFS                                                 | TF0, bits | 0x171                          |        |
|              |                                                     | TF1, bits | 1x171                          |        |
|              |                                                     | TF2, bits | 2x171                          |        |
|              | TTI, ms                                             |           | 20                             |        |
|              | Coding type                                         |           | TC                             |        |
|              | CRC, bit                                            |           | 16                             |        |
|              | Max number of bits/TTI before rate matching         |           | 1 134                          |        |
|              | Max number of bits/radio frame before rate matching |           | 567                            |        |
|              | RM attribute                                        |           | 200 to 240                     |        |

## 6.10.3.4.4.4.1.3 TFCS

|           |                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------|
| TFCS size | 4                                                                                                              |
| TFCS      | (RB for CTCH, SRBs for CCCH/BCCH) =<br>(TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0) , (TF1, TF1), (TF2, TF0) |

#### 6.10.3.4.4.2 Physical channel parameters

|         |                                      |                              |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble                             | 512 chips                    |
|         | Codes and time slots                 | SF16 x 2 codes x 1 time slot |
|         | Max. Number of data bits/radio frame | 472 bits                     |
|         | TFCI code word                       | 16 bits                      |
|         | Puncturing limit                     | 0.80                         |

#### 6.10.3.4.4.5 64.8kbps RB for MTCH with 80 ms TTI

##### 6.10.3.4.4.5.1 Transport channel parameters

##### 6.10.3.4.4.5.1.1 Transport channel parameters for 64 kbps PS RAB

|              |                                                     |           |       |
|--------------|-----------------------------------------------------|-----------|-------|
| Higher layer | RAB/signalling RB                                   |           | RAB   |
|              | User of Radio Bearer                                |           | MBMS  |
| RLC          | Logical channel type                                |           | MTCH  |
|              | RLC mode                                            |           | UM    |
|              | Payload sizes, bit                                  |           | 648   |
|              | Max data rate, bps                                  |           | 64800 |
|              | UMD PDU header, bit                                 |           | 8     |
|              |                                                     |           |       |
| MAC          | MAC header, bit                                     |           | 8     |
|              | MAC multiplexing                                    |           | N/A   |
| Layer 1      | TrCH type                                           |           | FACH  |
|              | TB sizes, bit                                       |           | 664   |
|              | TFS                                                 | TF0, bits | 0x664 |
|              |                                                     | TF1, bits | 1x664 |
|              |                                                     | TF2, bits | 2x664 |
|              |                                                     | TF3, bits | 3x664 |
|              |                                                     | TF4, bits | 4x664 |
|              |                                                     | TF5, bits | 5x664 |
|              |                                                     | TF6, bits | 6x664 |
|              |                                                     | TF7, bits | 7x664 |
|              |                                                     | TF8, bits | 8x664 |
|              | TTI, ms                                             |           | 80    |
|              | Coding type                                         |           | TC    |
|              | CRC, bit                                            |           | 16    |
|              | Max number of bits/TTI after channel coding         |           | 16344 |
|              | Max number of bits/radio frame before rate matching |           | 2043  |
|              | RM attribute                                        |           | 160   |

##### 6.10.3.4.4.5.1.2 TFCS

|           |                                                          |
|-----------|----------------------------------------------------------|
| TFCS size | 9                                                        |
| TFCS      | 64 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8 |

#### 6.10.3.4.4.5.2 Physical channel parameters

|         |                                      |                              |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble                             | 512 chips                    |
|         | Codes and time slots                 | SF16 x 8 codes x 1 time slot |
|         | Max. Number of data bits/radio frame | 1936 bits                    |
|         | TFCI code word                       | 16 bits                      |
|         | Puncturing limit                     | 0.92                         |

## 6.10.3.4.4.6 129.6kbps RB for MTCH with 80 ms TTI

## 6.10.3.4.4.6.1 Transport channel parameters

## 6.10.3.4.4.6.1.1 Transport channel parameters for 128 kbps PS RAB

|              |                                                     |            |        |
|--------------|-----------------------------------------------------|------------|--------|
| Higher layer | RAB/signalling RB                                   |            | RAB    |
|              | User of Radio Bearer                                |            | MBMS   |
| RLC          | Logical channel type                                |            | MTCH   |
|              | RLC mode                                            |            | UM     |
|              | Payload sizes, bit                                  |            | 648    |
|              | Max data rate, bps                                  |            | 129600 |
|              | UMD PDU header, bit                                 |            | 8      |
| MAC          | MAC header, bit                                     |            | 8      |
|              | MAC multiplexing                                    |            | N/A    |
| Layer 1      | TrCH type                                           |            | FACH   |
|              | TB sizes, bit                                       |            | 664    |
|              | TFS                                                 | TF0, bits  | 0x664  |
|              |                                                     | TF1, bits  | 1x664  |
|              |                                                     | TF2, bits  | 2x664  |
|              |                                                     | TF3, bits  | 3x664  |
|              |                                                     | TF4, bits  | 4x664  |
|              |                                                     | TF5, bits  | 5x664  |
|              |                                                     | TF6, bits  | 6x664  |
|              |                                                     | TF7, bits  | 7x664  |
|              |                                                     | TF8, bits  | 8x664  |
|              |                                                     | TF9, bits  | 9x664  |
|              |                                                     | TF10, bits | 10x664 |
|              |                                                     | TF11, bits | 11x664 |
|              |                                                     | TF12, bits | 12x664 |
|              |                                                     | TF13, bits | 13x664 |
|              |                                                     | TF14, bits | 14x664 |
|              |                                                     | TF15, bits | 15x664 |
|              |                                                     | TF16, bits | 16x664 |
|              | TTI, ms                                             |            | 80     |
|              | Coding type                                         |            | TC     |
|              | CRC, bit                                            |            | 16     |
|              | Max number of bits/TTI after channel coding         |            | 32679  |
|              | Max number of bits/radio frame before rate matching |            | 4085   |
|              | RM attribute                                        |            | 160    |

## 6.10.3.4.4.6.1.2 TFCS

|           |                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------|
| TFCS size | 17                                                                                                       |
| TFCS      | 128 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

## 6.10.3.4.4.6.2 Physical channel parameters

|         |                                      |                             |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble                             | 512 chips                   |
|         | Codes and time slots                 | SF1 x 1 codes x 1 time slot |
|         | Max. Number of data bits/radio frame | 3888 bits                   |
|         | TFCI code word                       | 16 bits                     |
|         | Puncturing limit                     | 0.92                        |

6.10.3.4.4.7 259.2 kbps RB for MTCH with 40 ms TTI

6.10.3.4.4.7.1 Transport channel parameters

6.10.3.4.4.7.1.1 Transport channel parameters for 256 kbps PS RAB

|              |                                                     |            |        |
|--------------|-----------------------------------------------------|------------|--------|
| Higher layer | RAB/signalling RB                                   |            | RAB    |
|              | User of Radio Bearer                                |            | MBMS   |
| RLC          | Logical channel type                                |            | MTCH   |
|              | RLC mode                                            |            | UM     |
|              | Payload sizes, bit                                  |            | 648    |
|              | Max data rate, bps                                  |            | 129600 |
|              | UMD PDU header, bit                                 |            | 8      |
| MAC          | MAC header, bit                                     |            | 8      |
|              | MAC multiplexing                                    |            | N/A    |
| Layer 1      | TrCH type                                           |            | FACH   |
|              | TB sizes, bit                                       |            | 664    |
|              | TFS                                                 | TF0, bits  | 0x664  |
|              |                                                     | TF1, bits  | 1x664  |
|              |                                                     | TF2, bits  | 2x664  |
|              |                                                     | TF3, bits  | 3x664  |
|              |                                                     | TF4, bits  | 4x664  |
|              |                                                     | TF5, bits  | 5x664  |
|              |                                                     | TF6, bits  | 6x664  |
|              |                                                     | TF7, bits  | 7x664  |
|              |                                                     | TF8, bits  | 8x664  |
|              |                                                     | TF9, bits  | 9x664  |
|              |                                                     | TF10, bits | 10x664 |
|              |                                                     | TF11, bits | 11x664 |
|              |                                                     | TF12, bits | 12x664 |
|              |                                                     | TF13, bits | 13x664 |
|              |                                                     | TF14, bits | 14x664 |
|              |                                                     | TF15, bits | 15x664 |
|              |                                                     | TF16, bits | 16x664 |
|              | TTI, ms                                             |            | 40     |
|              | Coding type                                         |            | TC     |
|              | CRC, bit                                            |            | 16     |
|              | Max number of bits/TTI after channel coding         |            | 32679  |
|              | Max number of bits/radio frame before rate matching |            | 8170   |
|              | RM attribute                                        |            | 160    |

6.10.3.4.4.7.1.2 TFCS

|           |                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------|
| TFCS size | 17                                                                                                       |
| TFCS      | 256 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

6.10.3.4.4.7.2 Physical channel parameters

|         |                                      |                             |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble                             | 512 chips                   |
|         | Codes and time slots                 | SF1 x 1 codes x 2 time slot |
|         | Max. Number of data bits/radio frame | 7792 bits                   |
|         | TFCI code word                       | 16 bits                     |
|         | Puncturing limit                     | 0.92                        |

## 6.10.3.4.4.8 7.6 kbps signalling RB for MCCH

## 6.10.3.4.4.8.1 Transport channel parameters

## 6.10.3.4.4.8.1.1 Transport channel parameters for 7.6 kbps signalling RB for MCCH

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | SRB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MCCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 152    |
|              | Max data rate, bps                                  |           | 7600   |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | -      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 160    |
|              | TFS                                                 | TF0, bits | 0x160  |
|              |                                                     | TF1, bits | 1x160  |
|              | TTI, ms                                             |           | 20     |
|              | Coding type                                         |           | CC 1/3 |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 552    |
|              | Max number of bits/radio frame before rate matching |           | 276    |
|              | RM attribute                                        |           | 160    |

## 6.10.3.4.4.8.1.2 TFCS

|           |                    |
|-----------|--------------------|
| TFCS size | 2                  |
| TFCS      | MBMS SRB =TF0, TF1 |

## 6.10.3.4.4.8.2 Physical channel parameters

|         |                                      |                              |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble                             | 512 chips                    |
|         | Codes and time slots                 | SF16 x 1 codes x 1 time slot |
|         | Max. Number of data bits/radio frame | 228 bits                     |
|         | TFCI code word                       | 16 bits                      |
|         | Puncturing limit                     | 0.80                         |



6.10.3.4.4.9 124.4kbps RB for MBSFN MTCH with 80 ms TTI

6.10.3.4.4.9.1 Transport channel parameters

6.10.3.4.4.9.1.1 Transport channel parameters for 124 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 4976   |
|              | Max data rate, bps                                  |           | 124400 |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 9      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 4993   |
|              | TFS                                                 | TF0, bits | 0x4993 |
|              |                                                     | TF1, bits | 1x4993 |
|              |                                                     | TF2, bits | 2x4993 |
|              | TTI, ms                                             |           | 80     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 30078  |
|              | Max number of bits/radio frame before rate matching |           | 3760   |
|              | RM attribute                                        |           | 128    |

6.10.3.4.4.9.1.2 TFCS

|           |                             |
|-----------|-----------------------------|
| TFCS size | 3                           |
| TFCS      | 124 kbps RAB =TF0, TF1, TF2 |

6.10.3.4.4.9.2 Physical channel parameters

|         |                                      |                            |
|---------|--------------------------------------|----------------------------|
| S-CCPCH | Midamble                             | 320 chips (burst type 4)   |
|         | Codes and time slots                 | SF1 x 1 code x 1 time slot |
|         | Modulation                           | QPSK                       |
|         | Max. Number of data bits/radio frame | 4208 bits                  |
|         | TFCI code word                       | (16,5)                     |
|         | Puncturing limit                     | 1                          |

6.10.3.4.4.10 320.4kbps RB for MBSFN MTCH with 80 ms TTI

6.10.3.4.4.10.1 Transport channel parameters

6.10.3.4.4.10.1.1 Transport channel parameters for 320 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 4272   |
|              | Max data rate, bps                                  |           | 320400 |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 9      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 4289   |
|              | TFS                                                 | TF0, bits | 0x4289 |
|              |                                                     | TF1, bits | 1x4289 |
|              |                                                     | TF2, bits | 6x4289 |
|              | TTI, ms                                             |           | 80     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 77562  |
|              | Max number of bits/radio frame before rate matching |           | 9696   |
|              | RM attribute                                        |           | 128    |

6.10.3.4.4.10.1.2 TFCS

|           |                             |
|-----------|-----------------------------|
| TFCS size | 3                           |
| TFCS      | 320 kbps RAB =TF0, TF1, TF2 |

6.10.3.4.4.10.2 Physical channel parameters

|         |                                      |                            |
|---------|--------------------------------------|----------------------------|
| S-CCPCH | Midamble                             | 320 chips (burst type 4)   |
|         | Codes and time slots                 | SF1 x 1 code x 1 time slot |
|         | Modulation                           | 16QAM                      |
|         | Max. Number of data bits/radio frame | 8432 bits                  |
|         | TFCI code word                       | (16,5)                     |
|         | Puncturing limit                     | 0.84                       |

6.10.3.4.4.11 497.6kbps RB for MBSFN MTCH with 80 ms TTI

6.10.3.4.4.11.1 Transport channel parameters

6.10.3.4.4.11.1.1 Transport channel parameters for 496 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 4976   |
|              | Max data rate, bps                                  |           | 497600 |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 9      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 4993   |
|              | TFS                                                 | TF0, bits | 0x4993 |
|              |                                                     | TF1, bits | 1x4993 |
|              |                                                     | TF2, bits | 8x4993 |
|              | TTI, ms                                             |           | 80     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 120312 |
|              | Max number of bits/radio frame before rate matching |           | 15039  |
|              | RM attribute                                        |           | 128    |

6.10.3.4.4.11.1.2 TFCS

|           |                             |
|-----------|-----------------------------|
| TFCS size | 3                           |
| TFCS      | 496 kbps RAB =TF0, TF1, TF2 |

6.10.3.4.4.11.2 Physical channel parameters

|         |                                      |                             |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble                             | 320 chips (burst type 4)    |
|         | Codes and time slots                 | SF1 x 1 code x 2 time slots |
|         | Modulation                           | QPSK                        |
|         | Max. Number of data bits/radio frame | 8432 bits                   |
|         | TFCI code word                       | (16,5) in first slot only   |
|         | Puncturing limit                     | 0.56                        |

## 6.10.3.4.4.12 7.2 kbps signalling RB for MBSFN MCCH

## 6.10.3.4.4.12.1 Transport channel parameters

## 6.10.3.4.4.12.1.1 Transport channel parameters for 7.2 kbps signalling RB for MCCH

|              |                                                     |           |      |
|--------------|-----------------------------------------------------|-----------|------|
| Higher layer | RAB/signalling RB                                   |           | SRB  |
|              | User of Radio Bearer                                |           | MBMS |
| RLC          | Logical channel type                                |           | MCCH |
|              | RLC mode                                            |           | UM   |
|              | Payload sizes, bit                                  |           | 72   |
|              | Max data rate, bps                                  |           | 7200 |
|              | UMD PDU header, bit                                 |           | 8    |
| MAC          | MAC header, bit                                     |           | -    |
|              | MAC multiplexing                                    |           | N/A  |
| Layer 1      | TrCH type                                           |           | FACH |
|              | TB sizes, bit                                       |           | 80   |
|              | TFS                                                 | TF0, bits | 0x80 |
|              |                                                     | TF1, bits | 1x80 |
|              |                                                     | TF2, bits | 2x80 |
|              |                                                     | TF3, bits | 4x80 |
|              | TTI, ms                                             |           | 40   |
|              | Coding type                                         |           | TC   |
|              | CRC, bit                                            |           | 16   |
|              | Max number of bits/TTI after channel coding         |           | 1164 |
|              | Max number of bits/radio frame before rate matching |           | 291  |
|              | RM attribute                                        |           | 128  |

## 6.10.3.4.4.12.1.2 TFCS

|           |                              |
|-----------|------------------------------|
| TFCS size | 4                            |
| TFCS      | MBMS SRB =TF0, TF1, TF2, TF3 |

## 6.10.3.4.4.12.2 Physical channel parameters

|         |                                      |                             |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble                             | 320 chips (burst type 4)    |
|         | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|         | Max. Number of data bits/radio frame | 248 bits                    |
|         | Modulation                           | QPSK                        |
|         | TFCI code word                       | (16,5)                      |
|         | Puncturing limit                     | 0.84                        |

## 6.10.3.4.5 Combinations on PRACH

## 6.10.3.4.5.1 SRB for CCCH + SRB for DCCH

## 6.10.3.4.5.1.1 Transport channel parameters

## 6.10.3.4.5.1.1.1 Transport channel parameter for SRB for CCCH, SRB for DCCH

|              |                             |        |        |        |                         |                        |
|--------------|-----------------------------|--------|--------|--------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB           | SRB#0  | SRB#1  | SRB#2  | SRB#3                   | SRB#4                  |
|              | User of Radio Bearer        | RRC    | RRC    | RRC    | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC          | Logical channel type        | CCCH   | DCCH   | DCCH   | DCCH                    | DCCH                   |
|              | RLC mode                    | TM     | UM     | AM     | AM                      | AM                     |
|              | Payload sizes, bit          | 168    | 136    | 128    | 128                     | 128                    |
|              | Max data rate, bps          | 16 800 | 13 600 | 12 800 | 12 800                  | 12 800                 |
|              | AMD/UMD/TrD PDU header, bit | 0      | 8      | 16     | 16                      | 16                     |
| MAC          | MAC header, bit             | 2      | 26     | 26     | 26                      | 26                     |

|         |                                                     |                                |       |  |  |  |
|---------|-----------------------------------------------------|--------------------------------|-------|--|--|--|
|         | MAC multiplexing                                    | 5 logical channel multiplexing |       |  |  |  |
| Layer 1 | TrCH type                                           | RACH                           |       |  |  |  |
|         | TB sizes, bit                                       | 170                            |       |  |  |  |
|         | TFS                                                 | TF0, bits                      | 1x170 |  |  |  |
|         | TTI, ms                                             | 10                             |       |  |  |  |
|         | Coding type                                         | CC 1/2                         |       |  |  |  |
|         | CRC, bit                                            | 16                             |       |  |  |  |
|         | Max number of bits/TTI after channel coding         | 388                            |       |  |  |  |
|         | Max number of bits/Radio frame before rate matching | 388                            |       |  |  |  |

## 6.10.3.4.5.1.1.2 TFCS

|           |                             |
|-----------|-----------------------------|
| TFCS size | 1                           |
| TFCS      | SRBs for CCCH/ DCCH = (TF0) |

## 6.10.3.4.5.1.2 Physical channel parameters

|       |                                      |                                        |
|-------|--------------------------------------|----------------------------------------|
| PRACH | Midamble                             | 512 chips                              |
|       | Codes and time slots                 | SF8 (alt. SF16) x 1 code x 1 time slot |
|       | Max. Number of data bits/radio frame | 488 bits (alt. 244 bits)               |
|       | Puncturing Limit                     | 1.0 (alt. 0.60)                        |

## 6.10.3.4.5.2 Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

## 6.10.3.4.5.2.1 Transport channel parameters

| Higher layer | RAB/signalling RB                                    | RAB                               | SRB#0  | SRB#1  | SRB#2  | SRB#3                   | SRB#4                  |
|--------------|------------------------------------------------------|-----------------------------------|--------|--------|--------|-------------------------|------------------------|
|              | User of Radio Bearer                                 | Interactive/<br>Background<br>RAB | RRC    | RRC    | RRC    | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC          | Logical channel type                                 | DTCH                              | CCCH   | DCCH   | DCCH   | DCCH                    | DCCH                   |
|              | RLC mode                                             | AM                                | TM     | UM     | AM     | AM                      | AM                     |
|              | Payload sizes, bit                                   | 128                               | 168    | 136    | 128    | 128                     | 128                    |
|              | Max data rate, bps                                   | 12 800                            | 16 800 | 13 600 | 12 800 | 12 800                  | 12 800                 |
|              | AMD/UMD/TrD PDU header, bit                          | 16                                | 0      | 8      | 16     | 16                      | 16                     |
| MAC          | MAC header, bit                                      | 26                                | 2      | 26     | 26     | 26                      | 26                     |
|              | MAC multiplexing                                     | 6 logical channel multiplexing    |        |        |        |                         |                        |
| Layer 1      | TrCH type                                            | RACH                              |        |        |        |                         |                        |
|              | TB sizes, bit                                        | 170                               |        |        |        |                         |                        |
|              | TFS                                                  | TF0, bits                         | 1x170  |        |        |                         |                        |
|              | TTI, ms                                              | 10                                |        |        |        |                         |                        |
|              | Coding type                                          | CC 1/2                            |        |        |        |                         |                        |
|              | CRC, bit                                             | 16                                |        |        |        |                         |                        |
|              | Max number of bits/TTI after channel coding          | 388                               |        |        |        |                         |                        |
|              | Max number of bits/ Radio frame before rate matching | 388                               |        |        |        |                         |                        |

## 6.10.3.4.5.2.2 Physical channel parameters

See clause 6.10.3.4.5.1.2.

## 6.10.3.4.5.3 Interactive/Background 12.8 kbps PS RAB + Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

## 6.10.3.4.5.3.1 Transport channel parameters

| Higher | RAB/signalling RB | RAB | RAB | SRB#0 | SRB#1 | SRB#2 | SRB#3 | SRB#4 |
|--------|-------------------|-----|-----|-------|-------|-------|-------|-------|
|--------|-------------------|-----|-----|-------|-------|-------|-------|-------|

| layer   | User of Radio Bearer                                 | Interactive/<br>Background<br>RAB | Interactive/<br>Background<br>RAB | RRC    | RRC    | RRC    | NAS_DT<br>High prio | NAS_DT<br>Low prio |
|---------|------------------------------------------------------|-----------------------------------|-----------------------------------|--------|--------|--------|---------------------|--------------------|
| RLC     | Logical channel type                                 | DTCH                              | DTCH                              | CCCH   | DCCH   | DCCH   | DCCH                | DCCH               |
|         | RLC mode                                             | AM                                | AM                                | TM     | UM     | AM     | AM                  | AM                 |
|         | Payload sizes, bit                                   | 128                               | 128                               | 168    | 136    | 128    | 128                 | 128                |
|         | Max data rate, bps                                   | 12 800                            | 12 800                            | 16 800 | 13 600 | 12 800 | 12 800              | 12 800             |
|         | AMD/UMD/TrD PDU header, bit                          | 16                                | 16                                | 0      | 8      | 16     | 16                  | 16                 |
| MAC     | MAC header, bit                                      | 26                                | 26                                | 2      | 26     | 26     | 26                  | 26                 |
|         | MAC multiplexing                                     | 7 logical channel multiplexing    |                                   |        |        |        |                     |                    |
| Layer 1 | TrCH type                                            | RACH                              |                                   |        |        |        |                     |                    |
|         | TB sizes, bit                                        | 170                               |                                   |        |        |        |                     |                    |
|         | TFS TF0, bits                                        | 1x170                             |                                   |        |        |        |                     |                    |
|         | TTI, ms                                              | 10                                |                                   |        |        |        |                     |                    |
|         | Coding type                                          | CC 1/2                            |                                   |        |        |        |                     |                    |
|         | CRC, bit                                             | 16                                |                                   |        |        |        |                     |                    |
|         | Max number of bits/TTI after channel coding          | 388                               |                                   |        |        |        |                     |                    |
|         | Max number of bits/ Radio frame before rate matching | 388                               |                                   |        |        |        |                     |                    |
|         |                                                      |                                   |                                   |        |        |        |                     |                    |

#### 6.10.3.4.5.3.2 Physical channel parameters

See clause 6.10.3.4.5.1.2.

#### 6.10.3.4.6 Combinations on DPCH and HS-PDSCH

6.10.3.4.6.1 Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.10.3.4.6.1.1 Uplink

See clause 6.10.3.4.1.26.1.

##### 6.10.3.4.6.1.2 Downlink

##### 6.10.3.4.6.1.2.1 Transport channel parameters

##### 6.10.3.4.6.1.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.1.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer                                                                                                                                        | RAB/Signalling RB             | RAB                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| RLC                                                                                                                                                 | Logical channel type          | DTCH                            |
|                                                                                                                                                     | RLC mode                      | AM                              |
|                                                                                                                                                     | Payload sizes, bit            | 320                             |
|                                                                                                                                                     | Max data rate, bps            | depends on UE category<br>NOTE1 |
|                                                                                                                                                     | AMD PDU header, bit           | 16                              |
| MAC                                                                                                                                                 | MAC-d header, bit             | 0                               |
|                                                                                                                                                     | MAC multiplexing              | N/A                             |
|                                                                                                                                                     | MAC-d PDU size, bit           | 336                             |
|                                                                                                                                                     | MAC-hs header fixed part, bit | 21                              |
| Layer 1                                                                                                                                             | TrCH type                     | HS-DSCH                         |
|                                                                                                                                                     | TTI                           | 10 ms                           |
|                                                                                                                                                     | Coding type                   | TC                              |
|                                                                                                                                                     | CRC, bit                      | 24                              |
| NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). |                               |                                 |

##### 6.10.3.4.6.1.2.1.2 Transport channel parameters for DCH

## 6.10.3.4.6.1.2.1.2.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

## 6.10.3.4.6.1.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

## 6.10.3.4.6.1.2.2 Physical channel parameters

## 6.10.3.4.6.1.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2.

## 6.10.3.4.6.1.2.2.2 Physical channel parameters on HS-PDSCH

Physical parameters common for all UE physical layer categories

|          |          |           |
|----------|----------|-----------|
| HS-PDSCH | Midamble | 512 chips |
|----------|----------|-----------|

## UE HS-DSCH Physical Layer category 1:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 2                                 |
|          | Max Data Rate                               | 1.2 Mbps                          |

## UE HS-DSCH Physical Layer category 2:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 12                                |
|          | Max Data Rate                               | 1.2 Mbps                          |

## UE HS-DSCH Physical Layer category 3:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 4                                 |
|          | Max Data Rate                               | 2.4 Mbps                          |

## UE HS-DSCH Physical Layer category 4:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 12                                |
|          | Max Data Rate                               | 2.4 Mbps                          |

## UE HS-DSCH Physical Layer category 5:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 6                                 |
|          |                                             |                                   |

|  |               |          |
|--|---------------|----------|
|  | Max Data Rate | 3.6 Mbps |
|--|---------------|----------|

UE HS-DSCH Physical Layer category 6:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 12                                |
|          | Max Data Rate                               | 3.6 Mbps                          |

UE HS-DSCH Physical Layer category 7:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 12                                |
|          | Max Data Rate                               | 5.3 Mbps                          |

UE HS-DSCH Physical Layer category 8:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 12                                |
|          | Max Data Rate                               | 7.3 Mbps                          |

UE HS-DSCH Physical Layer category 9:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 12                                |
|          | Max Data Rate                               | 10.2 Mbps                         |

6.10.3.4.6.2 Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.2.1 Uplink

See clause 6.10.3.4.1.28.1.

6.10.3.4.6.2.2 Downlink

6.10.3.4.6.2.2.1 Transport channel parameters

6.10.3.4.6.2.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.2.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.2.2.1.2 Transport channel parameters for DCH

6.10.3.4.6.2.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.



## 6.10.3.4.6.2.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

## 6.10.3.4.6.2.2.2 Physical channel parameters

## 6.10.3.4.6.2.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2..

## 6.10.3.4.6.2.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

## 6.10.3.4.6.3 Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.6.3.1 Uplink

See clause 6.10.3.4.1.34.1.

## 6.10.3.4.6.3.2 Downlink

## 6.10.3.4.6.3.2.1 Transport channel parameters

## 6.10.3.4.6.3.2.1.1 Transport channel parameters for HS-DSCH

## 6.10.3.4.6.3.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

## 6.10.3.4.6.3.2.1.2 Transport channel parameters for DCH

## 6.10.3.4.6.3.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.6.3.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

## 6.10.3.4.6.3.2.2 Physical channel parameters

## 6.10.3.4.6.3.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2..

## 6.10.3.4.6.3.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

## 6.10.3.4.6.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.6.4.1 Uplink

## 6.10.3.4.6.4.1.1 Transport channel parameters

## 6.10.3.4.6.4.1.1.1 Transport channel parameters for Conversational / Speech / UL12.2kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

## 6.10.3.4.6.4.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.3.4.1.34.1.1.1.

## 6.10.3.4.6.4.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.6.4.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 36 (alt. 54)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),<br>(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1)<br>(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),<br>(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),<br>(TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),<br>(TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),<br>(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),<br>(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),<br>(TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),<br>(TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1)) |

#### 6.10.3.4.6.4.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 256 chips                   |
|             | Codes and time slots                 | SF2 x 1 code x 3 time slots |
|             | Max. Number of data bits/radio frame | 6 480 bits                  |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.48                        |

#### 6.10.3.4.6.4.2 Downlink

##### 6.10.3.4.6.4.2.1 Transport channel parameters

##### 6.10.3.4.6.4.2.1.1 Transport channel parameters for HS-DSCH

##### 6.10.3.4.6.4.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

##### 6.10.3.4.6.4.2.1.2 Transport channel parameters for DCH

##### 6.10.3.4.6.4.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

##### 6.10.3.4.6.4.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.6.4.2.1.2.3 TFCS

See clause 6.10.3.4.1.4.2.1.3.

## 6.10.3.4.6.4.2.2 Physical channel parameters

## 6.10.3.4.6.4.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.4.2.2.

## 6.10.3.4.6.4.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

## 6.10.3.4.6.5 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.6.5.1 Uplink

See clause 6.10.3.4.1.40.1.

## 6.10.3.4.6.5.2 Downlink

## 6.10.3.4.6.5.2.1 Transport channel parameters

## 6.10.3.4.6.5.2.1.1 Transport channel parameters for HS-DSCH

## 6.10.3.4.6.5.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

## 6.10.3.4.6.5.2.1.2 Transport channel parameters for DCH

## 6.10.3.4.6.5.2.1.2.1 Transport channel parameters for Conversational / Speech / UL12.2kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

## 6.10.3.4.6.5.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.6.5.2.1.2.3 TFCS

See clause 6.10.3.4.1.4.2.1.3.

## 6.10.3.4.6.5.2.2 Physical channel parameters

## 6.10.3.4.6.5.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.4.2.2.

## 6.10.3.4.6.5.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

## 6.10.3.4.6.6 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.6.6.1 Uplink

## 6.10.3.4.6.6.1.1 Transport channel parameters

## 6.10.3.4.6.6.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

#### 6.10.3.4.6.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.3.4.1.34.1.1.1.

#### 6.10.3.4.6.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.6.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24 (alt. 36)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| TFCS      | (64 kbps RAB, 384 kbps RAB , DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0),<br>(TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0),<br>(TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF5, TF0), (TF1, TF5, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1),<br>(TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1),<br>(TF0, TF4, TF1), (TF1, TF4, TF1), (TF0, TF5, TF1), (TF1, TF5, TF1)<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0),<br>(TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0),<br>(TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF5, TF0), (TF1, TF5, TF0),<br>(TF0, TF6, TF0), (TF1, TF6, TF0), (TF0, TF7, TF0), (TF1, TF7, TF0),<br>(TF0, TF8, TF0), (TF1, TF8, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1),<br>(TF0, TF3, TF1), (TF1, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1),<br>(TF0, TF5, TF1), (TF1, TF5, TF1), (TF0, TF6, TF1), (TF1, TF6, TF1),<br>(TF0, TF7, TF1), (TF1, TF7, TF1), (TF0, TF8, TF1), (TF1, TF8, TF1)) |

#### 6.10.3.4.6.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 256 chips                   |
|             | Codes and time slots                 | SF2 x 1 code x 3 time slots |
|             | Max. Number of data bits/radio frame | 6 480 bits                  |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.40                        |

#### 6.10.3.4.6.6.1 Downlink

#### 6.10.3.4.6.6.2.1 Transport channel parameters

#### 6.10.3.4.6.6.2.1.1 Transport channel parameters for HS-DSCH

#### 6.10.3.4.6.6.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

#### 6.10.3.4.6.6.2.1.1 Transport channel parameters for DCH

#### 6.10.3.4.6.6.2.1.2.1 Transport channel parameters for Conversational / unknown/ DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

#### 6.10.3.4.6.6.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.6.6.2.1.2.3 TFCS

See clause 6.10.3.4.1.13.2.1.3.

6.10.3.4.6.2.2 Physical channel parameters

6.10.3.4.6.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.6.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.6.7 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.7.1 Uplink

See clause 6.10.3.4.1.57.1.

6.10.3.4.6.7.2 Downlink

6.10.3.4.6.7.2.1 Transport channel parameters

6.10.3.4.6.7.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.7.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.7.2.1.1 Transport channel parameters for DCH

6.10.3.4.6.7.2.1.2.1 Transport channel parameters for Conversational / unknown/ DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.6.7.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.6.7.2.1.2.3 TFCS

See clause 6.10.3.4.1.13.2.1.3.

6.10.3.4.6.7.2.2 Physical channel parameters

6.10.3.4.6.7.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.6.7.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.6.8 Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.8.1 Uplink

6.10.3.4.6.8.1.1 Transport channel parameters

6.10.3.4.6.8.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB + UL:384 kbps / PS RAB

|              |                      |      |      |
|--------------|----------------------|------|------|
| Higher layer | RAB/Signalling RB    | RAB  | RAB  |
| RLC          | Logical channel type | DTCH | DTCH |
|              | RLC mode             | AM   | AM   |
|              | Payload sizes, bit   | 320  | 320  |

|         |                                                             |                                |         |
|---------|-------------------------------------------------------------|--------------------------------|---------|
|         | Max data rate, bps                                          | 384 000                        | 384 000 |
|         | AMD PDU header, bit                                         | 16                             | 16      |
| MAC     | MAC header, bit                                             | 4                              | 4       |
|         | MAC multiplexing                                            | 2 logical channel multiplexing |         |
| Layer 1 | TrCH type                                                   | DCH                            |         |
|         | TB sizes, bit                                               | 340                            |         |
|         | TFS                                                         | TF0, bits                      | 0x340   |
|         |                                                             | TF1, bits                      | 1x340   |
|         |                                                             | TF2, bits                      | 2x340   |
|         |                                                             | TF3, bits                      | 4x340   |
|         |                                                             | TF4, bits                      | 8x340   |
|         |                                                             | TF5, bits                      | 12x340  |
|         | TTI, ms                                                     | 10                             |         |
|         | Coding type                                                 | TC                             |         |
|         | CRC, bit                                                    | 16                             |         |
|         | Max number of bits/TTI after channel coding                 | 12 828                         |         |
|         | Uplink: Max number of bits/radio frame before rate matching | 12 828                         |         |
|         | RM attribute                                                | 110-180                        |         |

#### 6.10.3.4.6.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.6.8.1.1.3 TFCS

|           |                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                        |
| TFCS      | (384 kbps RAB + 384 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |

#### 6.10.3.4.6.8.1.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                   |
|               | Codes and time slots                 | SF2 x 1 codes x 3 time slot |
|               | Max. Number of data bits/radio frame | 6480 bits                   |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.48                        |

#### 6.10.3.4.6.8.2 Downlink

##### 6.10.3.4.6.8.2.1 Transport channel parameters

##### 6.10.3.4.6.8.2.1.1 Transport channel parameters for HS-DSCH

##### 6.10.3.4.6.8.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

##### 6.10.3.4.6.8.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

##### 6.10.3.4.6.8.2.1.2 Transport channel parameters for DCH

##### 6.10.3.4.6.8.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.10.3.4.6.8.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.10.3.4.6.8.2.2 Physical channel parameters

6.10.3.4.6.8.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2.

6.10.3.4.6.8.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.6.9 Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.9.1 Uplink

See clause 6.10.3.4.1.57.1.

6.10.3.4.6.9.2 Downlink

6.10.3.4.6.9.2.1 Transport channel parameters

6.10.3.4.6.9.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.9.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.9.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.9.2.1.2 Transport channel parameters for DCH

6.10.3.4.6.9.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.6.9.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.10.3.4.6.9.2.2 Physical channel parameters

6.10.3.4.6.9.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2.

6.10.3.4.6.9.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.6.10 Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.6.10.1 Uplink

6.10.3.4.6.10.1.1 Transport channel parameters

6.10.3.4.6.10.1.1.1 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

| Higher Layer | RAB/Signalling RB                                           |           | RAB     |
|--------------|-------------------------------------------------------------|-----------|---------|
| RLC          | Logical channel type                                        |           | DTCH    |
|              | RLC mode                                                    |           | AM      |
|              | Payload sizes, bit                                          |           | 640     |
|              | Max data rate, bps                                          |           | 128000  |
|              | AM PDU header, bit                                          |           | 16      |
| MAC          | MAC header, bit                                             |           | 0       |
|              | MAC multiplexing                                            |           | N/A     |
| Layer 1      | TrCH type                                                   |           | DCH     |
|              | TB sizes, bit                                               |           | 656     |
|              | TFS                                                         | TF0, bits | 0x656   |
|              |                                                             | TF1, bits | 1x656   |
|              |                                                             | TF2, bits | 2x656   |
|              |                                                             | TF3, bits | 4x656   |
|              | TTI, ms                                                     |           | 20      |
|              | Coding type                                                 |           | TC      |
|              | CRC, bit                                                    |           | 16      |
|              | Max number of bits/TTI after channel coding                 |           | 8076    |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 4038    |
|              | RM attribute                                                |           | 125-165 |

6.10.3.4.6.10.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.10.3.4.6.10.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.6.10.1.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TFCS      | (128 kbps RAB, 128 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0),<br>(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0),<br>(TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0),<br>(TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0),<br>(TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1),<br>(TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1),<br>(TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1),<br>(TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1) |

6.10.3.4.6.10.1.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                   |
|               | Codes and time slots                 | SF2 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 4272 bits                   |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.48                        |



## 6.10.3.4.6.10.2 Downlink

## 6.10.3.4.6.10.2.1 Transport channel parameters

## 6.10.3.4.6.10.2.1.1 Transport channel parameters for HS-DSCH

## 6.10.3.4.6.10.2.1.1.1 MAC-d flow parameters for Streaming / unknown / DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB

| Higher Layer                                                                                                                              | RAB/Signalling RB             | RAB                             |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| RLC                                                                                                                                       | Logical channel type          | DTCH                            |
|                                                                                                                                           | RLC mode                      | AM                              |
|                                                                                                                                           | Payload sizes, bit            | 640                             |
|                                                                                                                                           | Max data rate, bps            | depends on UE category<br>NOTE1 |
|                                                                                                                                           | AMD PDU header, bit           | 16                              |
| MAC                                                                                                                                       | MAC-d header, bit             | 0                               |
|                                                                                                                                           | MAC multiplexing              | N/A                             |
|                                                                                                                                           | MAC-d PDU size, bit           | 656                             |
|                                                                                                                                           | MAC-hs header fixed part, bit | 21                              |
| Layer 1                                                                                                                                   | TrCH type                     | HS-DSCH                         |
|                                                                                                                                           | TTI                           | 10 ms                           |
|                                                                                                                                           | Coding type                   | TC                              |
|                                                                                                                                           | CRC, bit                      | 24                              |
| NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]). |                               |                                 |

## 6.10.3.4.6.10.2.1.1.2 MAC-d flow parameters for Streaming / unknown / DL: [max bit rate depending on UE category] kbps / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

## 6.10.3.4.6.10.2.1.2 Transport channel parameters for DCH

## 6.10.3.4.6.10.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.6.10.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

## 6.10.3.4.6.10.2.2 Physical channel parameters

## 6.10.3.4.6.10.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2.

## 6.10.3.4.6.10.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

## 6.10.3.4.6.11 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.6.11.1 Uplink

## 6.10.3.4.6.11.1.1 Transport channel parameters

## 6.10.3.4.6.11.1.1.1 Transport channel parameters for Conversational / Speech / UL12.2kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

## 6.10.3.4.6.11.1.1.2 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

See clause 6.10.3.4.6.10.1.1.1.

## 6.10.3.4.6.11.1.1.3 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

## 6.10.3.4.6.11.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.6.11.1.1.5 TFCS

| TFCS size | 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, 128 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0,TF0), (TF1,TF0,TF0,TF1,TF0,TF0), (TF2,TF1,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF2,TF0,TF0), (TF1,TF0,TF0,TF2,TF0,TF0), (TF2,TF1,TF1,TF2,TF0,TF0),<br>(TF0,TF0,TF0,TF3,TF0,TF0), (TF1,TF0,TF0,TF3,TF0,TF0), (TF2,TF1,TF1,TF3,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF0,TF1,TF0),<br>(TF0,TF0,TF0,TF1,TF1,TF0), (TF1,TF0,TF0,TF1,TF1,TF0), (TF2,TF1,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF1,TF0), (TF1,TF0,TF0,TF2,TF1,TF0), (TF2,TF1,TF1,TF2,TF1,TF0),<br>(TF0,TF0,TF0,TF3,TF1,TF0), (TF1,TF0,TF0,TF3,TF1,TF0), (TF2,TF1,TF1,TF3,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF0,TF2,TF0),<br>(TF0,TF0,TF0,TF1,TF2,TF0), (TF1,TF0,TF0,TF1,TF2,TF0), (TF2,TF1,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF2,TF2,TF0), (TF1,TF0,TF0,TF2,TF2,TF0), (TF2,TF1,TF1,TF2,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF2,TF0), (TF1,TF0,TF0,TF3,TF2,TF0), (TF2,TF1,TF1,TF3,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF0,TF3,TF0), (TF2,TF1,TF1,TF0,TF3,TF0),<br>(TF0,TF0,TF0,TF1,TF3,TF0), (TF1,TF0,TF0,TF1,TF3,TF0), (TF2,TF1,TF1,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF2,TF3,TF0), (TF1,TF0,TF0,TF2,TF3,TF0), (TF2,TF1,TF1,TF2,TF3,TF0),<br>(TF0,TF0,TF0,TF3,TF3,TF0), (TF1,TF0,TF0,TF3,TF3,TF0), (TF2,TF1,TF1,TF3,TF3,TF0),<br>(TF0,TF0,TF0,TF1,TF4,TF0), (TF1,TF0,TF0,TF1,TF4,TF0), (TF2,TF1,TF1,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF2,TF4,TF0), (TF1,TF0,TF0,TF2,TF4,TF0), (TF2,TF1,TF1,TF2,TF4,TF0),<br>(TF0,TF0,TF0,TF3,TF4,TF0), (TF1,TF0,TF0,TF3,TF4,TF0), (TF2,TF1,TF1,TF3,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF0,TF1), (TF1,TF0,TF0,TF1,TF0,TF1), (TF2,TF1,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF2,TF0,TF1), (TF1,TF0,TF0,TF2,TF0,TF1), (TF2,TF1,TF1,TF2,TF0,TF1),<br>(TF0,TF0,TF0,TF3,TF0,TF1), (TF1,TF0,TF0,TF3,TF0,TF1), (TF2,TF1,TF1,TF3,TF0,TF1),<br>(TF0,TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF1,TF1,TF1), (TF1,TF0,TF0,TF1,TF1,TF1), (TF2,TF1,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1,TF1), (TF1,TF0,TF0,TF2,TF1,TF1), (TF2,TF1,TF1,TF2,TF1,TF1),<br>(TF0,TF0,TF0,TF3,TF1,TF1), (TF1,TF0,TF0,TF3,TF1,TF1), (TF2,TF1,TF1,TF3,TF1,TF1),<br>(TF0,TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF0,TF2,TF1),<br>(TF0,TF0,TF0,TF1,TF2,TF1), (TF1,TF0,TF0,TF1,TF2,TF1), (TF2,TF1,TF1,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF2,TF2,TF1), (TF1,TF0,TF0,TF2,TF2,TF1), (TF2,TF1,TF1,TF2,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF2,TF1), (TF1,TF0,TF0,TF3,TF2,TF1), (TF2,TF1,TF1,TF3,TF2,TF1),<br>(TF0,TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF0,TF3,TF1), (TF2,TF1,TF1,TF0,TF3,TF1),<br>(TF0,TF0,TF0,TF1,TF3,TF1), (TF1,TF0,TF0,TF1,TF3,TF1), (TF2,TF1,TF1,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF2,TF3,TF1), (TF1,TF0,TF0,TF2,TF3,TF1), (TF2,TF1,TF1,TF2,TF3,TF1),<br>(TF0,TF0,TF0,TF3,TF3,TF1), (TF1,TF0,TF0,TF3,TF3,TF1), (TF2,TF1,TF1,TF3,TF3,TF1),<br>(TF0,TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF0,TF4,TF1), (TF2,TF1,TF1,TF0,TF4,TF1),<br>(TF0,TF0,TF0,TF1,TF4,TF1), (TF1,TF0,TF0,TF1,TF4,TF1), (TF2,TF1,TF1,TF1,TF4,TF1),<br>(TF0,TF0,TF0,TF2,TF4,TF1), (TF1,TF0,TF0,TF2,TF4,TF1), (TF2,TF1,TF1,TF2,TF4,TF1),<br>(TF0,TF0,TF0,TF3,TF4,TF1), (TF1,TF0,TF0,TF3,TF4,TF1), (TF2,TF1,TF1,TF3,TF4,TF1) |

## 6.10.3.4.6.11.1.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                   |
|               | Codes and time slots                 | SF2 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 4272 bits                   |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.44                        |

6.10.3.4.6.11.2 Downlink

6.10.3.4.6.11.2.1 Transport channel parameters

6.10.3.4.6.11.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.6.11.2.1.1.1 MAC-d flow parameters for Streaming / unknown / DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB

See clause 6.10.3.4.6.10.2.1.1.1.

6.10.3.4.6.11.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.6.11.2.1.2 Transport channel parameters for DCH

6.10.3.4.6.11.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.6.11.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.6.11.2.1.2.3 TFCS

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.6.11.2.2 Physical channel parameters

6.10.3.4.6.11.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.6.11.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.7 Combinations on HS-PDSCH and E-PUCH

6.10.3.4.7.1 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.10.3.4.7.1.1 Uplink

6.10.3.4.7.1.1.1 Transport channel parameters

6.10.3.4.7.1.1.1.1 Transport channel parameters for E-DCH

6.10.3.4.7.1.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

|              |                                 |                                |
|--------------|---------------------------------|--------------------------------|
| Higher layer | RAB/Signalling RB               | RAB                            |
| RLC          | Logical channel type            | DTCH                           |
|              | RLC mode                        | AM                             |
|              | Payload sizes, bit              | 320                            |
|              | Max data rate, bps              | Depends on UE category and TTI |
|              | AMD PDU header, bit             | 16                             |
| MAC          | MAC multiplexing                | N/A                            |
|              | MAC-d PDU size, bit             | 336                            |
|              | MAC-e/es header fixed part, bit | 18                             |
| Layer 1      | TrCH type                       | E-DCH                          |
|              | TTI                             | 10ms                           |
|              | Coding type                     | TC                             |
|              | CRC, bit                        | 24                             |

6.10.3.4.7.1.1.1.2 Transport channel parameters for DCH

6.10.3.4.7.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.7.1.1.2 Physical channel parameters

6.10.3.4.7.1.1.2.1 Physical channel parameters on E-PUCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE E-DCH Physical Layer category 1:

|        |                     |            |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4          |
|        | Max Data Rate       | 1.7360Mbps |

UE E-DCH Physical Layer category 2:

|        |                     |            |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4          |
|        | Max Data Rate       | 3.4752Mbps |

UE E-DCH Physical Layer category 3:

|        |                     |            |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4          |
|        | Max Data Rate       | 5.2416Mbps |

UE E-DCH Physical Layer category 4:

|        |                     |            |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4          |
|        | Max Data Rate       | 6.9536Mbps |

UE E-DCH Physical Layer category 5:

|        |                     |             |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4           |
|        | Max Data Rate       | 10.4864Mbps |

6.10.3.4.7.1.1.2.2 Physical channel parameters for DPCH

See clause 6.10.3.4.1.2.1.2

## 6.10.3.4.7.1.2 Downlink

See clause 6.10.3.4.6.1.2.

6.10.3.4.7.3 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

## 6.10.3.4.7.3.1 Uplink

See clause 6.10.3.4.7.1.1.

## 6.10.3.4.7.3.1.2 Physical channel parameters

## 6.10.3.4.7.3.1.2.1 Physical channel parameters on E-PUCH

See clause 6.10.3.4.7.1.1.2.1.

## 6.10.3.4.7.3.2 Downlink

## 6.10.3.4.7.3.2.1 Transport channel parameters

## 6.10.3.4.7.3.2.1.1 Transport channel parameters for HS-DSCH

6.10.3.4.7.3.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.3.4.6.1.2.1.1.1.

6.10.3.4.7.3.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

| Higher layer | RAB/Signalling RB                                                                                                                             | SRB#1                          | SRB#2 | SRB#3 | SRB#4 |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------|-------|-------|
| RLC          | Logical channel type                                                                                                                          | DCCH                           | DCCH  | DCCH  | DCCH  |
|              | RLC mode                                                                                                                                      | UM                             | AM    | AM    | AM    |
|              | Payload sizes, bit                                                                                                                            | 136                            | 128   | 128   | 128   |
|              | Max data rate, bps                                                                                                                            | Depends on UE category (NOTE)  |       |       |       |
|              | AMD PDU header, bit                                                                                                                           | 8                              | 16    | 16    | 16    |
| MAC          | MAC-d header, bit                                                                                                                             | 4                              | 4     | 4     | 4     |
|              | MAC multiplexing                                                                                                                              | 4 logical channel multiplexing |       |       |       |
|              | MAC-d PDU size, bit                                                                                                                           | 148                            |       |       |       |
|              | MAC-hs header fixed part, bit                                                                                                                 | 21                             |       |       |       |
| Layer 1      | TrCH type                                                                                                                                     | HS-DSCH                        |       |       |       |
|              | TTI                                                                                                                                           | 10 ms                          |       |       |       |
|              | Coding type                                                                                                                                   | TC                             |       |       |       |
|              | CRC, bit                                                                                                                                      | 24                             |       |       |       |
| NOTE:        | The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). |                                |       |       |       |

## 6.10.3.4.7.3.2.2 Physical channel parameters

## 6.10.3.4.7.3.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.10.3.4.6.1.2.2.2.

6.10.3.4.7.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.10.3.4.7.4.1 Uplink

## 6.10.3.4.7.4.1.1 Transport channel parameters

## 6.10.3.4.7.4.1.1.1 Transport channel parameters for E-DCH

6.10.3.4.7.4.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.3.4.7.1.1.1.1.1.

6.10.3.4.7.4.1.1.2 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.7.4.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.7.4.1.1.4 TFCS

See clause 6.10.3.4.1.4.1.1.3.

6.10.3.4.7.4.1.2 Physical channel parameters

6.10.3.4.7.4.1.2.1 Physical channel parameters on E-PUCH

See clause 6.10.3.4.7.1.1.2.1.

6.10.3.4.7.4.1.2.2 Physical channel parameters on DCH

See clause 6.10.3.4.1.4.1.2.

6.10.3.4.7.4.2 Downlink

See clause 6.10.3.4.6.3.2.

6.10.3.4.7.5 Streaming or interactive or background / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH

6.10.3.4.7.5.1 Uplink

6.10.3.4.7.5.1.1 Transport channel parameters

6.10.3.4.7.5.1.1.1 Transport channel parameters for E-DCH

MAC-e multiplexing between all MAC-d flows in the same MAC-e PDU shall be configured.

6.10.3.4.7.5.1.1.1.1 MAC-d flow #1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.3.4.7.1.1.1.1.1.

6.10.3.4.7.5.1.1.1.2 MAC-d flow #2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.10.3.4.7.1.1.1.1.1.

6.10.3.4.7.5.1.1.1.3 MAC-d flow #3 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.3.4.7.2.1.1.1.2.

6.10.3.4.7.5.1.2 Physical channel parameters

6.10.3.4.7.5.1.2.1 Physical channel parameters on E-PUCH

See clause 6.10.3.4.7.1.1.2.1.

6.10.3.4.7.5.2 Downlink

See clause 6.10.3.4.6.3.2.

## 6.11 Common Radio Bearer configurations for other test purposes

The common radio bearer configurations are used for functional testing of various UE functions. Only common configurations that are used by multiple test cases and are not covered by the reference radio bearer configurations in clause 6.10 are specified in the present clause. Radio bearer configurations only used by a single test case are specified in the actual test case itself.

NOTE If not specifically specified then the mid-value of the RM attribute value range as specified by the actual reference radio bearer configuration shall be applied for testing.

NOTE The order of tables and MAC-d flow numbering in this section may be different than the RB IDs and MAC-d flow IDs as defined in default messages in section 9.

### 6.11.1 Unacknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

This configuration is based on the Interactive or background / UL:8 DL 8 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see clause 6.10.2.4.1.23a) with the transport channels parameters of the RAB and TFCS defined as follows.

#### 6.11.1.1 Transport channel parameters for the Uplink RAB

|              |                                                             |           |            |
|--------------|-------------------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                           |           | RAB        |
| RLC          | Logical channel type                                        |           | DTCH       |
|              | RLC mode                                                    |           | UM         |
|              | Payload sizes, bit                                          |           | 328        |
|              | Max data rate, bps                                          |           | 8 200      |
|              | UMD PDU header, bit                                         |           | 8          |
| MAC          | MAC header, bit                                             |           | 0          |
|              | MAC multiplexing                                            |           | N/A        |
| Layer 1      | TrCH type                                                   |           | DCH        |
|              | TB sizes, bit                                               |           | 336        |
|              | TFS                                                         | TF0, bits | 0x336      |
|              |                                                             | TF1, bits | 1x336      |
|              | TTI, ms                                                     |           | 40         |
|              | Coding type                                                 |           | CC 1/3     |
|              | CRC, bit                                                    |           | 16         |
|              | Max number of bits/TTI after channel coding                 |           | 1 080      |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 270        |
|              | RM attribute                                                |           | 135 to 175 |

#### 6.11.1.2 TFCS

|           |                                                                       |
|-----------|-----------------------------------------------------------------------|
| TFCS size | 4                                                                     |
| TFCS      | (8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

#### 6.11.1.3 Transport channel parameters for the Downlink RAB

|              |                      |           |       |
|--------------|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB    |           | RAB   |
| RLC          | Logical channel type |           | DTCH  |
|              | RLC mode             |           | UM    |
|              | Payload sizes, bit   |           | 328   |
|              | Max data rate, bps   |           | 8 200 |
|              | UMD PDU header, bit  |           | 8     |
| MAC          | MAC header, bit      |           | 0     |
|              | MAC multiplexing     |           | N/A   |
| Layer 1      | TrCH type            |           | DCH   |
|              | TB sizes, bit        |           | 336   |
|              | TFS                  | TF0, bits | 0x336 |
|              |                      | TF1, bits | 1x336 |



|  |                                             |            |
|--|---------------------------------------------|------------|
|  | TTI, ms                                     | 40         |
|  | Coding type                                 | CC 1/3     |
|  | CRC, bit                                    | 16         |
|  | Max number of bits/TTI after channel coding | 1 080      |
|  | RM attribute                                | 135 to 175 |

## 6.11.1.4 TFCS

|           |                                                                       |
|-----------|-----------------------------------------------------------------------|
| TFCS size | 4                                                                     |
| TFCS      | (8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.11.1a Streaming / unknown / DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.1a.1 Uplink

## 6.11.1a.1.1 Transport channel parameters

## 6.11.1a.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.1.1.2.

## 6.11.1a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.11.1a.1.1.3 TFCS

See clause 6.10.2.4.1.23a.1.1.3

## 6.11.1a.1.2 Physical channel parameters

See clause 6.10.2.4.1.23a.1.2

## 6.11.1a.2 Downlink

## 6.11.1a.2.1 Transport channel parameters

## 6.11.1a.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

|              |                                             |            |
|--------------|---------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                           | RAB        |
| RLC          | Logical channel type                        | DTCH       |
|              | RLC mode                                    | UM         |
|              | Payload sizes, bit                          | 648        |
|              | Max data rate, bps                          | 64 800     |
|              | UM PDU header, bit                          | 8          |
| MAC          | MAC header, bit                             | 0          |
|              | MAC multiplexing                            | N/A        |
| Layer 1      | TrCH type                                   | DCH        |
|              | TB sizes, bit                               | 656        |
|              | TFS                                         | TF0, bits  |
|              |                                             | TF1, bits  |
|              |                                             | TF2, bits  |
|              |                                             | TF3, bits  |
|              | TTI, ms                                     | 40         |
|              | Coding type                                 | TC         |
|              | CRC, bit                                    | 16         |
|              | Max number of bits/TTI after channel coding | 8 076      |
|              | RM attribute                                | 125 to 165 |

## 6.11.1a.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.2.1.2.

6.11.1a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.1a.2.1.4 TFCS

See clause 6.10.2.4.1.58.2.1.4

6.11.1a.2.2 Physical channel parameters

See clause 6.10.2.4.1.58.2.2

## 6.11.1b Streaming / unknown / DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.1b.1 Uplink

6.11.1b.1.1 Transport channel parameters

6.11.1b.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.11.1b.1.1.2 TFCS

See clause 6.10.2.4.1.2.1.1.3

6.11.1b.1.2 Physical channel parameters

See clause 6.10.2.4.1.2.1.2

6.11.1b.2 Downlink

6.11.1b.2.1 Transport channel parameters

6.11.1b.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

See Clause 6.10.2.4.xx.2.1.1

6.11.1b.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.1b.2.1.3 TFCS

|           |                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 8                                                                                                                        |
| TFCS      | (64 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1) |

6.11.1b.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

### 6.11.1c 8kbps RB for MBSFN MTCH (3.84 Mcps TDD)

#### 6.11.1c.1 Transport channel parameters

##### 6.11.1c.1.1 Transport channel parameters for 8 kbps PS RAB

|              |                                                     |           |       |
|--------------|-----------------------------------------------------|-----------|-------|
| Higher layer | RAB/signalling RB                                   |           | RAB   |
|              | User of Radio Bearer                                |           | MBMS  |
| RLC          | Logical channel type                                |           | MTCH  |
|              | RLC mode                                            |           | UM    |
|              | Payload sizes, bit                                  |           | 328   |
|              | Max data rate, bps                                  |           | 8200  |
|              | UMD PDU header, bit                                 |           | 8     |
| MAC          | MAC header, bit                                     |           | 9     |
|              | MAC multiplexing                                    |           | N/A   |
| Layer 1      | TrCH type                                           |           | FACH  |
|              | TB sizes, bit                                       |           | 345   |
|              | TFS                                                 | TF0, bits | 0x345 |
|              |                                                     | TF1, bits | 1x345 |
|              | TTI, ms                                             |           | 40    |
|              | Coding type                                         |           | TC    |
|              | CRC, bit                                            |           | 16    |
|              | Max number of bits/TTI after channel coding         |           | 1095  |
|              | Max number of bits/radio frame before rate matching |           | 274   |
|              | RM attribute                                        |           | 128   |

#### 6.11.1c.1.2 TFCS

|           |                      |
|-----------|----------------------|
| TFCS size | 2                    |
| TFCS      | 8 kbps RAB =TF0, TF1 |

#### 6.11.1c.2 Physical channel parameters

|         |                                      |                             |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble                             | 320 chips (burst type 4)    |
|         | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|         | Modulation                           | QPSK                        |
|         | Max. Number of data bits/radio frame | 248 bits                    |
|         | TFCI code word                       | (16,5)                      |
|         | Puncturing limit                     | 0.84                        |

### 6.11.1d 8kbps RB for MBSFN MTCH (7.68 Mcps TDD)

#### 6.11.1d.1 Transport channel parameters

##### 6.11.1d.1.1 Transport channel parameters for 8 kbps PS RAB

See clause 6.11.1c.1.1

#### 6.11.1d.1.2 TFCS

|           |                      |
|-----------|----------------------|
| TFCS size | 2                    |
| TFCS      | 8 kbps RAB =TF0, TF1 |

#### 6.11.1d.2 Physical channel parameters

|         |                                      |                             |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble                             | 640 chips (burst type 4)    |
|         | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|         | Modulation                           | QPSK                        |
|         | Max. Number of data bits/radio frame | 248 bits                    |
|         | TFCI code word                       | (16,5)                      |
|         | Puncturing limit                     | 0.84                        |

### 6.11.1e 8kbps RB for MBSFN MTCH (3.84 Mcps TDD IMB)

#### 6.11.1e.1 Transport channel parameters

##### 6.11.1e.1.1 Transport channel parameters for 8kbps PS RAB

|              |                                                     |           |       |
|--------------|-----------------------------------------------------|-----------|-------|
| Higher layer | RAB/signalling RB                                   |           | RAB   |
|              | User of Radio Bearer                                |           | MBMS  |
| RLC          | Logical channel type                                |           | MTCH  |
|              | RLC mode                                            |           | UM    |
|              | Payload sizes, bit                                  |           | 328   |
|              | Max data rate, bps                                  |           | 8200  |
|              | UMD PDU header, bit                                 |           | 8     |
| MAC          | MAC header, bit                                     |           | 8     |
|              | MAC multiplexing                                    |           | N/A   |
| Layer 1      | TrCH type                                           |           | FACH  |
|              | TB sizes, bit                                       |           | 344   |
|              | TFS                                                 | TF0, bits | 0x344 |
|              |                                                     | TF1, bits | 1x344 |
|              | TTI, ms                                             |           | 40    |
|              | Coding type                                         |           | TC    |
|              | CRC, bit                                            |           | 16    |
|              | Max number of bits/TTI after channel coding         |           | 1092  |
|              | Max number of bits/radio frame before rate matching |           | 273   |
|              | RM attribute                                        |           | 128   |

#### 6.11.1e.1.2 TFCS

|           |                      |
|-----------|----------------------|
| TFCS size | 2                    |
| TFCS      | 8 kbps RAB =TF0, TF1 |

#### 6.11.1e.2 Physical channel parameters

|                |                           |  |          |
|----------------|---------------------------|--|----------|
| S-CCPCH Type 2 | DTX position              |  | Flexible |
|                | Spreading factor          |  | 16       |
|                | Number of codes           |  | 1        |
|                | Number of data bits/slot  |  | 272      |
|                | Number of data bits/frame |  | 816      |
|                | Modulation                |  | QPSK     |
|                | Slot Format #             |  | Format 3 |

### 6.11.2 Unacknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCCH (see clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed.

#### 6.11.2.1 Transport channel parameters for the Uplink RAB

|              |                      |           |        |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB    |           | RAB    |
| RLC          | Logical channel type |           | DTCH   |
|              | RLC mode             |           | UM     |
|              | Payload sizes, bit   |           | 1 336  |
|              | Max data rate, bps   |           | 66 800 |
|              | UMD PDU header, bit  |           | 8      |
| MAC          | MAC header, bit      |           | 0      |
|              | MAC multiplexing     |           | N/A    |
| Layer 1      | TrCH type            |           | DCH    |
|              | TB sizes, bit        |           | 1 344  |
|              | TFS                  | TF0, bits | 0x1344 |
|              |                      | TF1, bits | 1x1344 |
|              | TTI, ms              |           | 20     |

|  |                                                             |            |
|--|-------------------------------------------------------------|------------|
|  | Coding type                                                 | TC         |
|  | CRC, bit                                                    | 16         |
|  | Max number of bits/TTI after channel coding                 | 4 092      |
|  | Uplink: Max number of bits/radio frame before rate matching | 2 046      |
|  | RM attribute                                                | 130 to 170 |

### 6.11.2.2 Transport channel parameters for the Downlink RAB

|              |                                             |            |        |
|--------------|---------------------------------------------|------------|--------|
| Higher layer | RAB/Signalling RB                           |            | RAB    |
| RLC          | Logical channel type                        |            | DTCH   |
|              | RLC mode                                    |            | UM     |
|              | Payload sizes, bit                          |            | 1 336  |
|              | Max data rate, bps                          |            | 66 800 |
|              | UMD PDU header, bit                         |            | 8      |
| MAC          | MAC header, bit                             |            | 0      |
|              | MAC multiplexing                            |            | N/A    |
| Layer 1      | TrCH type                                   |            | DCH    |
|              | TB sizes, bit                               |            | 1 344  |
|              | TFS                                         | TF0, bits  | 0x1344 |
|              |                                             | TF1, bits  | 1x1344 |
|              | TTI, ms                                     |            | 20     |
|              | Coding type                                 |            | TC     |
|              | CRC, bit                                    |            | 16     |
|              | Max number of bits/TTI after channel coding |            | 4 092  |
| RM attribute |                                             | 130 to 170 |        |

### 6.11.2a 64kbps RB for MBSFN MTCH (3.84 Mcps TDD)

#### 6.11.2a.1 Transport channel parameters

##### 6.11.2a.1.1 Transport channel parameters for 64 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 1336   |
|              | Max data rate, bps                                  |           | 66800  |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 9      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 1353   |
|              | TFS                                                 | TF0, bits | 0x1353 |
|              |                                                     | TF1, bits | 1x1353 |
|              | TTI, ms                                             |           | 20     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 4119   |
|              | Max number of bits/radio frame before rate matching |           | 2060   |
|              | RM attribute                                        |           | 128    |

#### 6.11.2a.1.2 TFCS

|           |                        |
|-----------|------------------------|
| TFCS size | 2                      |
| TFCS      | 64 kbps RAB = TF0, TF1 |

#### 6.11.2a.2 Physical channel parameters

|         |                      |                              |
|---------|----------------------|------------------------------|
| S-CCPCH | Midamble             | 320 chips (burst type 4)     |
|         | Codes and time slots | SF16 x 8 codes x 1 time slot |
|         | Modulation           | QPSK                         |

|  |                                      |           |
|--|--------------------------------------|-----------|
|  | Max. Number of data bits/radio frame | 2096 bits |
|  | TFCI code word                       | (16,5)    |
|  | Puncturing limit                     | 1         |

### 6.11.2b 64kbps RB for MBSFN MTCH (7.68 Mcps TDD)

6.11.2b.1 Transport channel parameters

6.11.2b.1.1 Transport channel parameters for 64 kbps PS RAB

See clause 6.11.2a.1.1

6.11.2b.1.2 TFCS

|           |                        |
|-----------|------------------------|
| TFCS size | 2                      |
| TFCS      | 64 kbps RAB = TF0, TF1 |

6.11.2b.2 Physical channel parameters

|         |                                      |                              |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble                             | 640 chips (burst type 4)     |
|         | Codes and time slots                 | SF32 x 8 codes x 1 time slot |
|         | Modulation                           | QPSK                         |
|         | Max. Number of data bits/radio frame | 2096 bits                    |
|         | TFCI code word                       | (16,5)                       |
|         | Puncturing limit                     | 1                            |

### 6.11.3 Acknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

This configuration is based on the Interactive or background / UL:8 DL 8 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see clause 6.10.2.4.1.23a) with the transport channels parameters of the RAB and TFCS defined as follows.

6.11.3.1 Transport channel parameters for the Uplink RAB

|              |                                                             |       |            |
|--------------|-------------------------------------------------------------|-------|------------|
| Higher layer | RAB/Signalling RB                                           |       | RAB        |
| RLC          | Logical channel type                                        |       | DTCH       |
|              | RLC mode                                                    |       | AM         |
|              | Payload sizes, bit                                          |       | 128        |
|              | Max data rate, bps                                          |       | 6 400      |
|              | UMD PDU header, bit                                         |       | 16         |
| MAC          | MAC header, bit                                             |       | 0          |
|              | MAC multiplexing                                            |       | N/A        |
| Layer 1      | TrCH type                                                   |       | DCH        |
|              | TB sizes, bit                                               |       | 144        |
|              | TFS                                                         | 0x144 | 0x144      |
|              |                                                             | 1x144 | 1x144      |
|              | TTI, ms                                                     |       | 20         |
|              | Coding type                                                 |       | CC 1/3     |
|              | CRC, bit                                                    |       | 16         |
|              | Max number of bits/TTI after channel coding                 |       | 504        |
|              | Uplink: Max number of bits/radio frame before rate matching |       | 252        |
|              | RM attribute                                                |       | 135 to 175 |

6.11.3.2 TFCS

|           |                                                                |
|-----------|----------------------------------------------------------------|
| TFCS size | 4                                                              |
| TFCS      | (RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.11.3.3 Transport channel parameters for the Downlink RAB

|              |                                             |       |            |
|--------------|---------------------------------------------|-------|------------|
| Higher layer | RAB/Signalling RB                           |       | RAB        |
| RLC          | Logical channel type                        |       | DTCH       |
|              | RLC mode                                    |       | AM         |
|              | Payload sizes, bit                          |       | 128        |
|              | Max data rate, bps                          |       | 6 400      |
|              | UMD PDU header, bit                         |       | 16         |
| MAC          | MAC header, bit                             |       | 0          |
|              | MAC multiplexing                            |       | N/A        |
| Layer 1      | TrCH type                                   |       | DCH        |
|              | TB sizes, bit                               |       | 144        |
|              | TFS                                         | 0x144 | 0x144      |
|              |                                             | 1x144 | 1x144      |
|              | TTI, ms                                     |       | 20         |
|              | Coding type                                 |       | CC 1/3     |
|              | CRC, bit                                    |       | 16         |
|              | Max number of bits/TTI after channel coding |       | 504        |
|              | RM attribute                                |       | 135 to 175 |

## 6.11.3.4 TFCS

|           |                                                                |
|-----------|----------------------------------------------------------------|
| TFCS size | 4                                                              |
| TFCS      | (RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.11.4 Acknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed.

## 6.11.4.1 Transport channel parameters for the Uplink RAB

|              |                                                             |           |            |
|--------------|-------------------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                           |           | RAB        |
| RLC          | Logical channel type                                        |           | DTCH       |
|              | RLC mode                                                    |           | AM         |
|              | Payload sizes, bit                                          |           | 1 328      |
|              | Max data rate, bps                                          |           | 66 400     |
|              | AMD PDU header, bit                                         |           | 16         |
| MAC          | MAC header, bit                                             |           | 0          |
|              | MAC multiplexing                                            |           | N/A        |
| Layer 1      | TrCH type                                                   |           | DCH        |
|              | TB sizes, bit                                               |           | 1 344      |
|              | TFS                                                         | TF0, bits | 0x1344     |
|              |                                                             | TF1, bits | 1x1344     |
|              | TTI, ms                                                     |           | 20         |
|              | Coding type                                                 |           | TC         |
|              | CRC, bit                                                    |           | 16         |
|              | Max number of bits/TTI after channel coding                 |           | 4 092      |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 2 046      |
|              | RM attribute                                                |           | 130 to 170 |

## 6.11.4.2 Transport channel parameters for the Downlink RAB

|              |                      |  |            |
|--------------|----------------------|--|------------|
| Higher layer | RAB/Signalling RB    |  | <b>RAB</b> |
| RLC          | Logical channel type |  | DTCH       |
|              | RLC mode             |  | AM         |
|              | Payload sizes, bit   |  | 1 328      |
|              | Max data rate, bps   |  | 66 400     |
|              | AMD PDU header, bit  |  | 16         |
| MAC          | MAC header, bit      |  | 0          |

|         |                                             |            |
|---------|---------------------------------------------|------------|
|         | MAC multiplexing                            | N/A        |
| Layer 1 | TrCH type                                   | DCH        |
|         | TB sizes, bit                               | 1 344      |
|         | TFS                                         | TF0, bits  |
|         |                                             | TF1, bits  |
|         | TTI, ms                                     | 20         |
|         | Coding type                                 | TC         |
|         | CRC, bit                                    | 16         |
|         | Max number of bits/TTI after channel coding | 4 092      |
|         | RM attribute                                | 130 to 170 |

### 6.11.4a Reference Radio Bearer configurations used in MAC-hs testing

#### 6.11.4a.1 5 x Interactive or background / UL: 8 kbps DL: [max bit rate depending on UE category] / UM PS RAB

This reference radio bearer configuration is used by the MAC-hs test case 7.1.5.2 in 3GPP TS 34.123-1 [1].

##### 6.11.4a.1.1 Uplink

##### 6.11.4a.1.1.1 Uplink Transport channel parameters for DCH

##### 6.11.4a.1.1.1.1 Transport channel parameters for 5 x Interactive or background / UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                           | RB5                            | RB6   | RB7   | RB8   | RB9   |
|--------------|-------------------------------------------------------------|--------------------------------|-------|-------|-------|-------|
| RLC          | Logical channel type                                        | DTCH                           | DTCH  | DTCH  | DTCH  | DTCH  |
|              | RLC mode                                                    | UM                             | UM    | AM    | AM    | AM    |
|              | Payload sizes, bit                                          | 328                            | 328   | 320   | 320   | 320   |
|              | Max data rate, bps                                          | 8 200                          | 8 200 | 8 000 | 8 000 | 8 000 |
|              | UMD/AMD PDU header, bit                                     | 8                              | 8     | 16    | 16    | 16    |
| MAC          | MAC header, bit                                             | 4                              | 4     | 4     | 4     | 4     |
|              | MAC multiplexing                                            | 5 logical channel multiplexing |       |       |       |       |
| Layer 1      | TrCH type                                                   | DCH                            |       |       |       |       |
|              | TB sizes, bit                                               | 340                            |       |       |       |       |
|              | TFS                                                         | TF0, bits                      |       |       |       |       |
|              |                                                             | TF1, bits                      |       |       |       |       |
|              | TTI, ms                                                     | 40                             |       |       |       |       |
|              | Coding type                                                 | TC                             |       |       |       |       |
|              | CRC, bit                                                    | 16                             |       |       |       |       |
|              | Max number of bits/TTI after channel coding                 | 1 080                          |       |       |       |       |
|              | Uplink: Max number of bits/radio frame before rate matching | 270                            |       |       |       |       |
|              | RM attribute                                                | 135 to 175                     |       |       |       |       |

##### 6.11.4a.1.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

##### 6.11.4a.1.1.1.3 Uplink TFCS

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| TFCS size | 4                                                                          |
| TFCS      | (5x8 kbps PS RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

##### 6.11.4a.1.1.2 Uplink physical channel parameters

|             |                                           |     |
|-------------|-------------------------------------------|-----|
| DPCH Uplink | Min spreading factor                      | 64  |
|             | Max number of DPDCH data bits/radio frame | 600 |
|             | Puncturing Limit                          | 1.0 |

##### 6.11.4a.1.2 Downlink



## 6.11.4a.1.2.1 Transport channel parameters for HS-DSCH

## 6.11.4a.1.2.1.1 MAC-d flow #1 parameters for 2 x Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB    | RB5                            | RB6                    |
|--------------|----------------------|--------------------------------|------------------------|
| RLC          | Logical channel type | DTCH                           | DTCH                   |
|              | RLC mode             | UM                             | UM                     |
|              | Payload sizes, bit   | 328                            | 328                    |
|              | Max data rate, bps   | depends on UE category         | depends on UE category |
|              | UMD PDU header, bit  | 8                              | 8                      |
| MAC-d        | MAC-d header, bit    | 4                              | 4                      |
|              | MAC multiplexing     | 2 logical channel multiplexing |                        |
|              | MAC-d PDU size, bit  | 340                            |                        |

## 6.11.4a.1.2.1.2 MAC-d flow #2 parameters for 2 x Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB    | RB7                            | RB8                    |
|--------------|----------------------|--------------------------------|------------------------|
| RLC          | Logical channel type | DTCH                           | DTCH                   |
|              | RLC mode             | AM                             | AM                     |
|              | Payload sizes, bit   | 320                            | 320                    |
|              | Max data rate, bps   | depends on UE category         | depends on UE category |
|              | AMD PDU header, bit  | 16                             | 16                     |
| MAC-d        | MAC-d header, bit    | 4                              | 4                      |
|              | MAC multiplexing     | 2 logical channel multiplexing |                        |
|              | MAC-d PDU size, bit  | 340                            |                        |

## 6.11.4a.1.2.1.3 MAC-d flow#3 parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB    | RB9                    |
|--------------|----------------------|------------------------|
| RLC          | Logical channel type | DTCH                   |
|              | RLC mode             | AM                     |
|              | Payload sizes, bit   | 320                    |
|              | Max data rate, bps   | depends on UE category |
|              | AMD PDU header, bit  | 16                     |
| MAC-d        | MAC-d header, bit    | 0                      |
|              | MAC multiplexing     | N/A                    |
|              | MAC-d PDU size, bit  | 336                    |

## 6.11.4a.1.2.1.4 MAC-hs and Layer 1 parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

|         |                               |         |
|---------|-------------------------------|---------|
| MAC-hs  | MAC-hs header fixed part, bit | 21      |
| Layer 1 | TrCH type                     | HS-DSCH |
|         | TTI                           | 2 ms    |
|         | Coding type                   | TC      |
|         | CRC, bit                      | 24      |

## 6.11.4a.1.2.2 Downlink Transport channel parameters for DCH

## 6.11.4a.1.2.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.11.4a.1.2.2.2 Downlink TFCS

|           |                          |
|-----------|--------------------------|
| TFCS size | 2                        |
| TFCS      | SRBs for DCCH = TF0, TF1 |

## 6.11.4a.1.2.3 Downlink physical channel parameters

## 6.11.4a.1.2.3.1 Downlink physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

## 6.11.4a.1.2.3.2 Physical channel parameters on HS-PDSCH

UE HS-DSCH Physical Layer:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | Depending on UE category          |

## 6.11.4b Interactive or background / UL: 0 kbps DL: 0 kbps PS RAB

This reference radio bearer configuration is used by the RRC test case 8.4.1.43 in 3GPP TS 34.123-1 [1].

## 6.11.4b.1 Uplink

## 6.11.4b.1.1 Uplink Transport channel parameters for DCH

## 6.11.4b.1.1.1 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

|              |                                                             |           |            |
|--------------|-------------------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                           |           | RAB        |
| RLC          | Logical channel type                                        |           | DTCH       |
|              | RLC mode                                                    |           | AM         |
|              | Payload sizes, bit                                          |           | 320        |
|              | Max data rate, bps                                          |           | 0          |
|              | AMD PDU header, bit                                         |           | 16         |
| MAC          | MAC header, bit                                             |           | 0          |
|              | MAC multiplexing                                            |           | N/A        |
|              |                                                             |           |            |
| Layer 1      | TrCH type                                                   |           | DCH        |
|              | TB sizes, bit                                               |           | 336        |
|              | TFS                                                         | TF0, bits | 0x336      |
|              | TTI, ms                                                     |           | 20         |
|              | Coding type                                                 |           | CC         |
|              | CRC, bit                                                    |           | 16         |
|              | Max number of bits/TTI after channel coding                 |           | 0          |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 0          |
|              | RM attribute                                                |           | 130 to 170 |
|              |                                                             |           |            |

## 6.11.4b.1.1.2 Uplink TFCS

|           |                                               |
|-----------|-----------------------------------------------|
| TFCS size | 2                                             |
| TFCS      | (0 kbps RAB, DCCH)=<br>(TF0, TF0), (TF0, TF1) |

## 6.11.4b.1.2 Uplink physical channel parameters

|             |                                           |     |
|-------------|-------------------------------------------|-----|
| DPCH Uplink | Min spreading factor                      | 64  |
|             | Max number of DPDCH data bits/radio frame | 600 |
|             | Puncturing Limit                          | 1.0 |

## 6.11.4b.2 Downlink

## 6.11.4b.2.1 Downlink Transport channel parameters for DCH

## 6.11.4b.2.1.1 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

|              |                      |  |      |
|--------------|----------------------|--|------|
| Higher layer | RAB/Signalling RB    |  | RAB  |
| RLC          | Logical channel type |  | DTCH |

|         |                                             |            |
|---------|---------------------------------------------|------------|
|         | RLC mode                                    | AM         |
|         | Payload sizes, bit                          | 320        |
|         | Max data rate, bps                          | 0          |
|         | AMD PDU header, bit                         | 16         |
| MAC     | MAC header, bit                             | 0          |
|         | MAC multiplexing                            | N/A        |
| Layer 1 | TrCH type                                   | DCH        |
|         | TB sizes, bit                               | 336        |
|         | TFS TF0, bits                               | 0x336      |
|         | TTI, ms                                     | 20         |
|         | Coding type                                 | CC         |
|         | CRC, bit                                    | 16         |
|         | Max number of bits/TTI after channel coding | 0          |
|         | RM attribute                                | 130 to 170 |

## 6.11.4b.2.1.1.2 Downlink TFCS

|           |                                               |
|-----------|-----------------------------------------------|
| TFCS size | 2                                             |
| TFCS      | (0 kbps RAB, DCCH)=<br>(TF0, TF0), (TF0, TF1) |

## 6.11.4b.2.2 Downlink physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 128      |
|               | DPCCH            | Number of TFCI bits/slot  | 2        |
|               |                  | Number of TPC bits/slot   | 2        |
|               |                  | Number of Pilot bits/slot | 4        |
|               | DPDCH            | Number of data bits/slot  | 34       |
|               |                  | Number of data bits/frame | 510      |

### 6.11.4c Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

#### 6.11.4c.1 Uplink

##### 6.11.4c.1.1 Transport channel parameters

##### 6.11.4c.1.1.1 Transport channel parameters for E-DCH

##### 6.11.4c.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

|                                                                                                                                                                                                                                   |                                               | Alt 1<br>Fixed RLC + MAC-<br>e/es (Rel-6 and later)<br>NOTE 2 | Alt 2<br>Fixed RLC + MAC-i/is<br>(Rel-8 and later<br>releases)<br>NOTE 2 | Alt 3<br>Flexible RLC + MAC-<br>i/is (Rel-8 and later<br>releases)<br>NOTE 2 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Higher layer                                                                                                                                                                                                                      | RAB/Signalling RB                             | RAB                                                           |                                                                          |                                                                              |
| RLC                                                                                                                                                                                                                               | Logical channel type                          | DTCH                                                          |                                                                          |                                                                              |
|                                                                                                                                                                                                                                   | RLC mode                                      | UM                                                            |                                                                          |                                                                              |
|                                                                                                                                                                                                                                   | Payload sizes, bit                            | 328                                                           | 328                                                                      | Flexible up to 12000                                                         |
|                                                                                                                                                                                                                                   | Max data rate, bps                            | Depends on UE category and TTI                                |                                                                          |                                                                              |
|                                                                                                                                                                                                                                   | UMD PDU header, bit                           | 8                                                             |                                                                          |                                                                              |
| MAC                                                                                                                                                                                                                               | MAC multiplexing                              | N/A                                                           | N/A                                                                      | N/A                                                                          |
|                                                                                                                                                                                                                                   | MAC-d PDU size, bit                           | 336                                                           | 336                                                                      | Flexible                                                                     |
|                                                                                                                                                                                                                                   | MAC type                                      | MAC-e/es                                                      | MAC-i/is                                                                 | MAC-i/is                                                                     |
|                                                                                                                                                                                                                                   | MAC-e/es / MAC-i/is header<br>fixed part, bit | 18                                                            | 24                                                                       | 24                                                                           |
| Layer 1                                                                                                                                                                                                                           | TrCH type                                     | E-DCH                                                         |                                                                          |                                                                              |
|                                                                                                                                                                                                                                   | TTI                                           | 10ms (alt. 2ms) (NOTE 1)                                      |                                                                          |                                                                              |
|                                                                                                                                                                                                                                   | Coding type                                   | TC                                                            |                                                                          |                                                                              |
|                                                                                                                                                                                                                                   | CRC, bit                                      | 24                                                            |                                                                          |                                                                              |
| NOTE 1: The support of 2ms TTI depends on the UE category                                                                                                                                                                         |                                               |                                                               |                                                                          |                                                                              |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-i/is) or 3 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case. |                                               |                                                               |                                                                          |                                                                              |

##### 6.11.4c.1.1.1.2 Transport channel parameters for DCH

##### 6.11.4c.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.11.4c.1.2 Physical channel parameters

##### 6.11.4c.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1

##### 6.11.4c.1.2.2 Physical channel parameters for DPCH

See clause 6.10.2.4.1.2.1.2

#### 6.11.4c.2 Downlink

##### 6.11.4c.2.1 Transport channel parameters

##### 6.11.4c.2.1.1 Transport channel parameters for HS-DSCH

##### 6.11.4c.2.1.1.1 MAC-d flow parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

|              |                      |      |
|--------------|----------------------|------|
| Higher layer | RAB/Signalling RB    | RAB  |
| RLC          | Logical channel type | DTCH |

|                                                                                                                                                     |                               |                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
|                                                                                                                                                     | RLC mode                      | UM                              |
|                                                                                                                                                     | Payload sizes, bit            | 328                             |
|                                                                                                                                                     | Max data rate, bps            | depends on UE category<br>NOTE1 |
|                                                                                                                                                     | UMD PDU header, bit           | 8                               |
| MAC                                                                                                                                                 | MAC-d header, bit             | 0                               |
|                                                                                                                                                     | MAC multiplexing              | N/A                             |
|                                                                                                                                                     | MAC-d PDU size, bit           | 336                             |
|                                                                                                                                                     | MAC-hs header fixed part, bit | 21                              |
| Layer 1                                                                                                                                             | TrCH type                     | HS-DSCH                         |
|                                                                                                                                                     | TTI                           | 2 ms                            |
|                                                                                                                                                     | Coding type                   | TC                              |
|                                                                                                                                                     | CRC, bit                      | 24                              |
| NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). |                               |                                 |

#### 6.11.4c.2.1.1.2 Transport channel parameters for DCH

##### 6.11.4c.2.1.1.2.1 Transport channel parameters for UL: 3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

##### 6.11.4c.2.1.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

#### 6.11.4c.2.2 Physical channel parameters

##### 6.11.4c.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

##### 6.11.4c.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

#### 6.11.4d Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] + DL: 3.4 kbps SRBs for DCCH on E-DCH and DCH

#### 6.11.4d.1 Uplink

##### 6.11.4d.1.1 Transport channel parameters

##### 6.11.4d.1.1.1 Transport channel parameters for E-DCH

##### 6.11.4d.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2

##### 6.11.4d.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1.

##### 6.11.4d.1.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1.

### 6.11.4d.1.2 Physical channel parameters

#### 6.11.4d.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

### 6.11.4d.2 Downlink

#### 6.11.4d.2.1 Transport channel parameters

##### 6.11.4d.2.1.1 Transport channel parameters for HS-DSCH

##### 6.11.4d.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4c.2.1.1.1.

##### 6.11.4d.2.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4c.2.1.1.1.

##### 6.11.4d.2.1.2 Transport channel parameters for DCH

##### 6.11.4d.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

##### 6.11.4d.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

#### 6.11.4d.2.2 Physical channel parameters

##### 6.11.4d.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

##### 6.11.4d.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

### 6.11.4e Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.11.4e.1 Uplink

##### 6.11.4e.1.1 Transport channel parameters

##### 6.11.4e.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

|              |                      |        |
|--------------|----------------------|--------|
| Higher layer | RAB/Signalling RB    | RAB    |
| RLC          | Logical channel type | DTCH   |
|              | RLC mode             | UM     |
|              | Payload sizes, bit   | 328    |
|              | Max data rate, bps   | 65 800 |
|              | UMD PDU header, bit  | 8      |
| MAC          | MAC header, bit      | 0      |
|              | MAC multiplexing     | N/A    |

|         |                                                             |           |            |
|---------|-------------------------------------------------------------|-----------|------------|
| Layer 1 | TrCH type                                                   |           | DCH        |
|         | TB sizes, bit                                               |           | 336        |
|         | TFS                                                         | TF0, bits | 0x336      |
|         |                                                             | TF1, bits | 1x336      |
|         |                                                             | TF2, bits | 2x336      |
|         |                                                             | TF3, bits | 3x336      |
|         |                                                             | TF4, bits | 4x336      |
|         | TTI, ms                                                     |           | 20         |
|         | Coding type                                                 |           | TC         |
|         | CRC, bit                                                    |           | 16         |
|         | Max number of bits/TTI after channel coding                 |           | 4 236      |
|         | Uplink: Max number of bits/radio frame before rate matching |           | 2 118      |
|         | RM attribute                                                |           | 130 to 170 |

#### 6.11.4e.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.11.4e.1.1.3 TFCS

|           |                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                |
| TFCS      | (64 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

#### 6.11.4e.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.96  |

### 6.11.4e.2 Downlink

#### 6.11.4e.2.1 Transport channel parameters

##### 6.11.4e.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

|              |                                             |           |            |
|--------------|---------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                           |           | RAB        |
| RLC          | Logical channel type                        |           | DTCH       |
|              | RLC mode                                    |           | UM         |
|              | Payload sizes, bit                          |           | 328        |
|              | Max data rate, bps                          |           | 65 800     |
|              | UMD PDU header, bit                         |           | 8          |
| MAC          | MAC header, bit                             |           | 0          |
|              | MAC multiplexing                            |           | N/A        |
| Layer 1      | TrCH type                                   |           | DCH        |
|              | TB sizes, bit                               |           | 336        |
|              | TFS                                         | TF0, bits | 0x336      |
|              |                                             | TF1, bits | 1x336      |
|              |                                             | TF2, bits | 2x336      |
|              |                                             | TF3, bits | 3x336      |
|              |                                             | TF4, bits | 4x336      |
|              | TTI, ms                                     |           | 20         |
|              | Coding type                                 |           | TC         |
|              | CRC, bit                                    |           | 16         |
|              | Max number of bits/TTI after channel coding |           | 4 236      |
|              | RM attribute                                |           | 130 to 170 |

#### 6.11.4e.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.11.4e.2.1.3 TFCS

|           |                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                |
| TFCS      | (64 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

## 6.11.4e.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

## 6.11.4f Reference Radio Bearer configurations used in MAC-ehs testing

## 6.11.4f.1 3 x Interactive or background / UL: 8 kbps DL: [max bit rate depending on UE category] / UM PS RAB

This reference radio bearer configuration is used by the MAC-ehs test case 7.1.x.x in 3GPP TS 34.123-1 [1].

## 6.11.4f.1.1 Uplink

## 6.11.4f.1.1.1 Uplink Transport channel parameters for DCH

## 6.11.4f.1.1.1.1 Transport channel parameters for 3 x Interactive or background / UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                           | RB5                            | RB6   | RB7   |
|--------------|-------------------------------------------------------------|--------------------------------|-------|-------|
| RLC          | Logical channel type                                        | DTCH                           | DTCH  | DTCH  |
|              | RLC mode                                                    | UM                             | UM    | UM    |
|              | Payload sizes, bit                                          | 328                            | 328   | 320   |
|              | Max data rate, bps                                          | 8 200                          | 8 200 | 8 000 |
|              | UMD/AMD PDU header, bit                                     | 8                              | 8     | 8     |
| MAC          | MAC header, bit                                             | 4                              | 4     | 4     |
|              | MAC multiplexing                                            | 3 logical channel multiplexing |       |       |
| Layer 1      | TrCH type                                                   | DCH                            |       |       |
|              | TB sizes, bit                                               | 340                            |       |       |
|              | TFS                                                         | TF0, bits                      |       | 0x340 |
|              |                                                             | TF1, bits                      |       | 1x340 |
|              | TTI, ms                                                     | 40                             |       |       |
|              | Coding type                                                 | TC                             |       |       |
|              | CRC, bit                                                    | 16                             |       |       |
|              | Max number of bits/TTI after channel coding                 | 1 080                          |       |       |
|              | Uplink: Max number of bits/radio frame before rate matching | 270                            |       |       |
|              | RM attribute                                                | 135 to 175                     |       |       |

## 6.11.4f.1.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.11.4f.1.1.1.3 Uplink TFCS

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| TFCS size | 4                                                                          |
| TFCS      | (5x8 kbps PS RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |



## 6.11.4f.1.1.2 Uplink physical channel parameters

|             |                                           |     |
|-------------|-------------------------------------------|-----|
| DPCH Uplink | Min spreading factor                      | 64  |
|             | Max number of DPDCH data bits/radio frame | 600 |
|             | Puncturing Limit                          | 1.0 |

## 6.11.4f.1.2 Downlink

## 6.11.4f.1.2.1 Transport channel parameters for HS-DSCH

## 6.11.4f.1.2.1.1 parameters for 3 x Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB    | RB5                    | RB6  | RB7  |
|--------------|----------------------|------------------------|------|------|
| RLC          | Logical channel type | DTCH                   | DTCH | DTCH |
|              | RLC mode             | UM                     | UM   | UM   |
|              | Payload sizes, bit   | 328                    | 328  | 328  |
|              | Max data rate, bps   | depends on UE category |      |      |
|              | UMD PDU header, bit  | 8                      | 8    | 8    |
| MAC-d        | MAC-d header, bit    | None                   |      |      |
|              | MAC multiplexing     | None                   |      |      |
|              | MAC-d PDU size, bit  | 336                    |      |      |

## 6.11.4f.1.2.1.2 MAC-ehs and Layer 1 parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

|         |                                |         |
|---------|--------------------------------|---------|
| MAC-ehs | MAC-ehs header fixed part, bit | FFS     |
| Layer 1 | TrCH type                      | HS-DSCH |
|         | TTI                            | 2 ms    |
|         | Coding type                    | TC      |
|         | CRC, bit                       | 24      |

## 6.11.4f.1.2.2 Downlink Transport channel parameters for DCH

## 6.11.4f.1.2.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.11.4f.1.2.2.2 Downlink TFCS

|           |                          |
|-----------|--------------------------|
| TFCS size | 2                        |
| TFCS      | SRBs for DCCH = TF0, TF1 |

## 6.11.4f.1.2.3 Downlink physical channel parameters

## 6.11.4f.1.2.3.1 Downlink physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

## 6.11.4f.1.2.3.2 Physical channel parameters on HS-PDSCH

UE HS-DSCH Physical Layer:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | Depending on UE category          |

## 6.11.4f.2 1 x Interactive or background / UL: 8 kbps DL: [max bit rate depending on UE category] / UM PS RAB

This reference radio bearer configuration is used by the MAC-ehs test case 7.1.x.x in 3GPP TS 34.123-1 [1].

## 6.11.4f.2.1 Uplink

## 6.11.4f.2.1.1 Uplink Transport channel parameters for DCH

## 6.11.4f.2.1.1.1 Transport channel parameters for 1 x Interactive or background / UL:8 kbps / PS RAB

|              |                                                             |           |            |
|--------------|-------------------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                           |           | <b>RB5</b> |
| RLC          | Logical channel type                                        |           | DTCH       |
|              | RLC mode                                                    |           | UM         |
|              | Payload sizes, bit                                          |           | 328        |
|              | Max data rate, bps                                          |           | 8 200      |
|              | UMD/AMD PDU header, bit                                     |           | 8          |
| MAC          | MAC header, bit                                             |           | 0          |
|              | MAC multiplexing                                            |           | N/A        |
| Layer 1      | TrCH type                                                   |           | DCH        |
|              | TB sizes, bit                                               |           | 336        |
|              | TFS                                                         | TF0, bits | 0x336      |
|              |                                                             | TF1, bits | 1x336      |
|              | TTI, ms                                                     |           | 40         |
|              | Coding type                                                 |           | TC         |
|              | CRC, bit                                                    |           | 16         |
|              | Max number of bits/TTI after channel coding                 |           | 1 080      |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 270        |
|              | RM attribute                                                |           | 135 to 175 |

## 6.11.4f.2.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

## 6.11.4f.2.1.1.3 Uplink TFCS

|           |                                                                          |
|-----------|--------------------------------------------------------------------------|
| TFCS size | 4                                                                        |
| TFCS      | (8 kbps PS RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.11.4f.2.1.2 Uplink physical channel parameters

|             |                                           |     |
|-------------|-------------------------------------------|-----|
| DPCH Uplink | Min spreading factor                      | 64  |
|             | Max number of DPDCH data bits/radio frame | 600 |
|             | Puncturing Limit                          | 1.0 |

## 6.11.4f.2.2 Downlink

## 6.11.4f.2.2.1 Transport channel parameters for HS-DSCH

6.11.4f.2.2.1.1 parameters for 1 x Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB              | <b>RB5</b>             |
|--------------|--------------------------------|------------------------|
| RLC          | Logical channel type           | DTCH                   |
|              | RLC mode                       | UM                     |
|              | Payload sizes, bit             | 328                    |
|              | Max data rate, bps             | depends on UE category |
|              | UMD PDU header, bit            | 8                      |
| MAC-d        | MAC-d header, bit              | None                   |
|              | MAC multiplexing               | None                   |
|              | MAC-d PDU size, bit            | 336                    |
| MAC-ehs      | MAC-ehs header fixed part, bit | 24                     |
| Layer 1      | TrCH type                      | HS-DSCH                |
|              | TTI                            | 2 ms                   |
|              | Coding type                    | TC                     |
|              | CRC, bit                       | 24                     |

6.11.4f.2.2.2 Downlink Transport channel parameters for DCH

6.11.4f.2.2.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.4f.2.2.2.2 Downlink TFCS

|           |                          |
|-----------|--------------------------|
| TFCS size | 2                        |
| TFCS      | SRBs for DCCH = TF0, TF1 |

6.11.4f.2.2.3 Downlink physical channel parameters

6.11.4f.2.2.3.1 Downlink physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.11.4f.2.2.3.2 Physical channel parameters on HS-PDSCH

UE HS-DSCH Physical Layer:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | Depending on UE category          |

## 6.11.4g Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

### 6.11.4g.1 Uplink

#### 6.11.4g.1.1 Transport channel parameters

##### 6.11.4g.1.1.1 Transport channel parameters for E-DCH

##### 6.11.4g.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

|              |                                 |                                |
|--------------|---------------------------------|--------------------------------|
| Higher layer | RAB/Signalling RB               | RAB                            |
| RLC          | Logical channel type            | DTCH                           |
|              | RLC mode                        | UM                             |
|              | Payload sizes, bit              | 328                            |
|              | Max data rate, bps              | Depends on UE category and TTI |
|              | UMD PDU header, bit             | 8                              |
| MAC          | MAC multiplexing                | N/A                            |
|              | MAC-d PDU size, bit             | 336                            |
|              | MAC-e/es header fixed part, bit | 18                             |
| Layer 1      | TrCH type                       | E-DCH                          |
|              | TTI                             | 10ms                           |
|              | Coding type                     | TC                             |
|              | CRC, bit                        | 24                             |

##### 6.11.4g.1.1.1.2 Transport channel parameters for DCH

##### 6.11.4g.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

### 6.11.4g.1.2 Physical channel parameters

#### 6.11.4g.1.2.1 Physical channel parameters on E-PUCH

See clause 6.10.3.4.7.1.1.2.1

#### 6.11.4g.1.2.2 Physical channel parameters for DPCH

See clause 6.10.3.4.1.2.1.2

### 6.11.4g.2 Downlink

#### 6.11.4g.2.1 Transport channel parameters

##### 6.11.4g.2.1.1 Transport channel parameters for HS-DSCH

##### 6.11.4g.2.1.1.1 MAC-d flow parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

|              |                               |                                 |
|--------------|-------------------------------|---------------------------------|
| Higher layer | RAB/Signalling RB             | RAB                             |
| RLC          | Logical channel type          | DTCH                            |
|              | RLC mode                      | UM                              |
|              | Payload sizes, bit            | 328                             |
|              | Max data rate, bps            | depends on UE category<br>NOTE1 |
|              | UMD PDU header, bit           | 8                               |
| MAC          | MAC-d header, bit             | 0                               |
|              | MAC multiplexing              | N/A                             |
|              | MAC-d PDU size, bit           | 336                             |
|              | MAC-hs header fixed part, bit | 21                              |
| Layer 1      | TrCH type                     | HS-DSCH                         |

|                                                                                                                                                     |             |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|
|                                                                                                                                                     | TTI         | 10 ms |
|                                                                                                                                                     | Coding type | TC    |
|                                                                                                                                                     | CRC, bit    | 24    |
| NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). |             |       |

6.11.4g.2.1.1.2 Transport channel parameters for DCH

6.11.4g.2.1.1.2.1 Transport channel parameters for UL: 3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.4g.2.1.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.11.4g.2.2 Physical channel parameters

6.11.4g.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2.

6.11.4g.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

**6.11.4h Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] + DL: 3.4 kbps SRBs for DCCH on E-DCH and DCH for 3.84Mcps TDD**

6.11.4h.1 Uplink

6.11.4h.1.1 Transport channel parameters

6.11.4h.1.1.1 Transport channel parameters for E-DCH

6.11.4h.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.3.4.7.2.1.1.1.2

6.11.4h.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4g.1.1.1.1.

6.11.4h.1.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4g.1.1.1.1.

6.11.4h.1.2 Physical channel parameters

6.11.4h.1.2.1 Physical channel parameters on E-PUCH

See clause 6.10.3.4.7.1.1.2.1.

## 6.11.4h.2 Downlink

### 6.11.4h.2.1 Transport channel parameters

#### 6.11.4h.2.1.1 Transport channel parameters for HS-DSCH

##### 6.11.4h.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4g.2.1.1.1.

##### 6.11.4h.2.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4g.2.1.1.1.

#### 6.11.4h.2.1.2 Transport channel parameters for DCH

##### 6.11.4h.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.11.4h.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

### 6.11.4h.2.2 Physical channel parameters

#### 6.11.4h.2.2.1 Physical channel parameters on DPCH

See clause 6.10.3.4.1.2.2.2.

#### 6.11.4h.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.3.4.6.1.2.2.2.

## 6.11.4i Reference Radio Bearer configurations used in CPC testing

### 6.11.4i.1 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / UM PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

#### 6.11. 4i.1.1 Uplink

##### 6.11. 4i.1.1.1 Transport channel parameters

###### 6.11. 4i.1.1.1.1 Transport channel parameters for E-DCH

###### 6.11. 4i.1.1.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1

###### 6.11. 4i.1.1.1.1.2 MAC-d flow#2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2

## 6.11. 4i.1.1.2 Physical channel parameters

### 6.11. 4i.1.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1

## 6.11. 4i.1.2 Downlink

### 6.11. 4i.1.2.1 Transport channel parameters

#### 6.11. 4i.1.2.1.1 Transport channel parameters for HS-DSCH

##### 6.11. 4i.1.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4c.2.1.1.1

##### 6.11. 4i.1.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2.

### 6.11. 4i.1.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

#### 6.11. 4i.1.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

## 6.11.4j Reference Radio Bearer configurations used in Improved L2 testing

### 6.11.4j.1 Interactive or background / UL:64 DL: [max bit rate depending on UE category] / UM PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.11.4j.1.1 Uplink

See clause 6.11.4e.1

#### 6.11.4j.1.2 Downlink

## 6.11. 4j.1.2.1 Transport channel parameters

## 6.11. 4j.1.2.1.1 Transport channel parameters for HS-DSCH

## 6.11. 4j.1.2.1.1.1 MAC-d flow parameters for DL: [max bit rate depending on UE category] kbps / PS RAB

|                                                                                                                                           |                                   | <b>Flexible RLC +<br/>MAC-ehs<br/>(Rel-7 and later<br/>releases)</b> |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------|
| Higher Layer                                                                                                                              | RAB/Signalling RB                 | <b>RAB</b>                                                           |
| RLC                                                                                                                                       | Logical channel type              | DTCH                                                                 |
|                                                                                                                                           | RLC mode                          | UM                                                                   |
|                                                                                                                                           | Payload sizes, bit                | Flexible up to 12000                                                 |
|                                                                                                                                           | Max data rate, bps                | depends on UE category<br>NOTE1                                      |
|                                                                                                                                           | UMD PDU header, bit               | 8                                                                    |
| MAC                                                                                                                                       | MAC-d header, bit                 | 0                                                                    |
|                                                                                                                                           | MAC multiplexing                  | N/A                                                                  |
|                                                                                                                                           | MAC-d PDU size, bit               | Flexible                                                             |
|                                                                                                                                           | MAC-hs Type                       | MAC-ehs                                                              |
|                                                                                                                                           | MAC-hs/ehs header fixed part, bit | 24                                                                   |
| Layer 1                                                                                                                                   | TrCH type                         | HS-DSCH                                                              |
|                                                                                                                                           | TTI                               | 2 ms                                                                 |
|                                                                                                                                           | Coding type                       | TC                                                                   |
|                                                                                                                                           | CRC, bit                          | 24                                                                   |
|                                                                                                                                           | Applicable modulation schemes     | QPSK,<br>16QAM, 64QAM                                                |
|                                                                                                                                           | Applicable with MIMO              | Yes                                                                  |
| NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]). |                                   |                                                                      |

## 6.11.4j.1.2.1.1.2 Transport channel parameters for DCH

## 6.11.4j.1.2.1.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.11.4j.1.2.1.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

## 6.11.4j.1.2.2 Physical channel parameters

## 6.11.4j.1.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

## 6.11.4j.1.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.11.4j.2 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] with Flexible RLC and MAC-ehs SRBs for DCCH on E-DCH and HS-DSCH

## 6.11.4j.2.1 Uplink

See clause 6.10.2.4.6.1.1.



6.11.4j.2.1.2 Physical channel parameters

6.11.4j.2.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.11.4j.2.2 Downlink

6.11.4j.2.2.1 Transport channel parameters

6.11.4j.2.2.1.1 Transport channel parameters for HS-DSCH

6.11.4j.2.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1.

6.11.4j.2.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

| Higher layer | RAB/signalling RB              | SRB#1                           | SRB#2 | SRB#3 | SRB#4 |
|--------------|--------------------------------|---------------------------------|-------|-------|-------|
| RLC          | Logical channel type           | DCCH                            | DCCH  | DCCH  | DCCH  |
|              | RLC mode                       | UM                              | AM    | AM    | AM    |
|              | Payload sizes, bit             | Flexible up to 12000            |       |       |       |
|              | Max data rate, bps             | Depends on UE category (NOTE 1) |       |       |       |
| MAC          | AMD/UMD PDU header, bit        | 8                               | 16    | 16    | 16    |
|              | MAC header, bit                | 4                               | 4     | 4     | 4     |
|              | MAC multiplexing               | N/A                             |       |       |       |
|              | MAC-d PDU size, bit            | Flexible                        |       |       |       |
|              | MAC-hs Type                    | MAC-ehs                         |       |       |       |
| Layer 1      | MAC-ehs header fixed part, bit | 24                              |       |       |       |
|              | TrCH type                      | HS-DSCH                         |       |       |       |
|              | TTI, ms                        | 2 ms                            |       |       |       |
|              | Coding type                    | TC                              |       |       |       |
|              | CRC, bit                       | 24                              |       |       |       |
|              | Applicable modulation schemes  | QPSK, 16QAM, 64QAM              |       |       |       |
|              | Applicable with MIMO           | Yes                             |       |       |       |

6.11.4j.2.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

6.11.4j.2.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.10.2.4.5.1.2.2.2.

## 6.11.4k Reference Radio Bearer configurations used in Improved L2 UL testing

6.11.4k.1 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.4k.1.1 Uplink

6.11.4k.1.1.1 Transport channel parameters

6.11.4k.1.1.1.1 Transport channel parameters for E-DCH

6.11.4k.1.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1, alt 3.

6.11.4k.1.1.1.1.2 Transport channel parameters for DCH

6.11.4k.1.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

6.11.4k.1.1.2 Physical channel parameters

6.11.4k.1.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1

6.11.4k.1.1.2.2 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.1.2

6.11.4k.1.2 Downlink

6.11.4k.1.2.1 Transport channel parameters

6.11.4k.1.2.1.1 Transport channel parameters for HS-DSCH

6.11.4k.1.2.1.1.1 MAC-d flow parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB              | RAB                             |
|--------------|--------------------------------|---------------------------------|
| RLC          | Logical channel type           | DTCH                            |
|              | RLC mode                       | UM                              |
|              | Payload sizes, bit             | Flexible up to 12000            |
|              | Max data rate, bps             | depends on UE category<br>NOTE1 |
|              | UMD PDU header, bit            | 8                               |
| MAC          | MAC-d header, bit              | 0                               |
|              | MAC multiplexing               | N/A                             |
|              | MAC-d PDU size, bit            | Flexible                        |
|              | MAC-ehs header fixed part, bit | 24                              |
| Layer 1      | TrCH type                      | HS-DSCH                         |
|              | TTI                            | 2 ms                            |
|              | Coding type                    | TC                              |
|              | CRC, bit                       | 24                              |

NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-ehs PDU (see 3GPP TS 25.321 [38]).

6.11.4k.1.2.1.2 Transport channel parameters for DCH

6.11.4k.4.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.4k.1.2.2 Physical channel parameters

6.11.4k.1.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.5.1.2.

6.11.4k.1.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.11.4k.2 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.11.4k.2.1 Uplink

6.11.4k.2.1.1 Transport channel parameters

6.11.4k.2.1.1.1 Transport channel parameters for E-DCH

6.11.4k.2.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2, alt 2

6.11.4k.2.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1, alt 3

6.11.4k.2.1.2 Physical channel parameters

6.11.4k.2.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1

6.11.4k.2.2 Downlink

6.11.4k.2.2.1 Transport channel parameters

6.11.4k.2.2.1.1 Transport channel parameters for HS-DSCH

6.11.4k.2.2.1.1.1 MAC-d flow#0 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4k.1.2.1.1.1

6.11.4k.2.2.1.1.2 MAC-d flow#1 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2, alt 2.

6.11.4k.2.2.2 Physical channel parameters

6.11.4k.2.2.2.1 Physical channel parameters on DPCH

The physical channel configuration shall use F-DPCH.

#### 6.11.4k.2.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

**6.11.4k.3** Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] with Flexible RLC and MAC-e-hs SRBs for DCCH on E-DCH and HS-DSCH

#### 6.11.4k.3.1 Uplink

##### 6.11.4k.3.1.1 Transport channel parameters

##### 6.11.4k.3.1.1.1 Transport channel parameters for E-DCH

##### 6.11.4k.3.1.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1, alt 3.

##### 6.11.4k.3.1.1.1.2 MAC-d flow#2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2, alt 2.

##### 6.11.4k.3.2.1.2 Physical channel parameters

##### 6.11.4k.3.2.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

#### 6.11.4k.3.2.2 Downlink

##### 6.11.4k.3.2.2.1 Transport channel parameters

##### 6.11.4k.3.2.2.1.1 Transport channel parameters for HS-DSCH

##### 6.11.4k.3.2.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.10.2.4.5.1.2.1.1.1, alt 3

##### 6.11.4k.3.2.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2, alt 2.

##### 6.11.4k.3.2.2.2 Physical channel parameters

The physical channel configuration shall use F-DPCH.

##### 6.11.4k.3.2.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.10.2.4.5.1.2.2.2.

6.11.4k.4 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + 3.4 kbps SRBs for DCCH on E-DCH and DL DCH

6.11.4k.4.1 Uplink

6.11.4k.4.1.1 Transport channel parameters

6.11.4k.4.1.1.1 Transport channel parameters for E-DCH

6.11.4k.4.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2, alt 2.

6.11.4k.4.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1, alt 3.

6.11.4k.4.1.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1, alt 3.

6.11.4k.4.1.1.1.4 MAC-d flow#4 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1, alt 3.

6.11.4k.4.1.2 Physical channel parameters

6.11.4k.4.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

6.11.4k.4.2 Downlink

6.11.4k.4.2.1 Transport channel parameters

6.11.4k.4.2.1.1 Transport channel parameters for HS-DSCH

6.11.4k.4.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4k.1.2.1.1.1.

6.11.4k.4.2.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4k.1.2.1.1.1.

6.11.4k.4.2.1.1.2 MAC-d flow#3 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4k.2.1.1.1.

6.11.4k.4.2.1.2 Transport channel parameters for DCH

6.11.4k.4.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.11.4k.4.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2

## 6.11.4k.4.2.2 Physical channel parameters

## 6.11.4k.4.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

## 6.11.4k.4.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

6.11.4k.5 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

## 6.11.4k.5.1 Uplink

## 6.11.4k.5.1.1 Transport channel parameters

## 6.11.4k.5.1.1.1 Transport channel parameters for E-DCH

## 6.11.4k.5.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.10.2.4.6.2.1.1.1.2, alt 2.

## 6.11.4k.5.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1, alt 3.

## 6.11.4k.5.1.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.4c.1.1.1.1, alt 3.

## 6.11.4k.5.1.2 Physical channel parameters

## 6.11.4k.5.1.2.1 Physical channel parameters on E-DPDCH

See clause 6.10.2.4.6.1.1.2.1.

## 6.11.4k.5.2 Downlink

## 6.11.4k.5.2.1 Transport channel parameters

## 6.11.4k.5.2.1.1 Transport channel parameters for HS-DSCH

## 6.11.4k.5.2.1.1.1 MAC-d flow#1 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.10.2.4.6.3.2.1.1.2, alt 2.

## 6.11.4k.5.2.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4k.1.2.1.1.1.

6.11.4k.5.2.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.4k.1.2.1.1.1.

6.11.4k.5.2.2 Physical channel parameters

6.11.4k.5.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.11.4k.5.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.10.2.4.5.1.2.2.2.

## 6.11.4l Reference Radio Bearer configurations used in UL packet filtering testing

6.11.4l.1 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.4l.1.1 Uplink

6.11.4l.1.1.1 Transport channel parameters

6.11.4l.1.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                           |           | RAB                            | RAB   | RAB    |  |
|--------------|-------------------------------------------------------------|-----------|--------------------------------|-------|--------|--|
| RLC          | Logical channel type                                        |           | DTCH                           | DTCH  | DTCH   |  |
|              | RLC mode                                                    |           | AM                             | AM    | AM     |  |
|              | Payload sizes, bit                                          |           | 320                            | 320   | 320    |  |
|              | Max data rate, bps                                          |           | 64000                          | 64000 | 64 000 |  |
|              | AMD PDU header, bit                                         |           | 16                             | 16    | 16     |  |
| MAC          | MAC header, bit                                             |           | 4                              | 4     | 4      |  |
|              | MAC multiplexing                                            |           | 3 logical channel multiplexing |       |        |  |
| Layer 1      | TrCH type                                                   |           | DCH                            |       |        |  |
|              | TB sizes, bit                                               |           | 340                            |       |        |  |
|              | TFS                                                         | TF0, bits |                                | 0x340 |        |  |
|              |                                                             | TF1, bits |                                | 1x340 |        |  |
|              |                                                             | TF2, bits |                                | 2x340 |        |  |
|              |                                                             | TF3, bits |                                | 3x340 |        |  |
|              |                                                             | TF4, bits |                                | 4x340 |        |  |
|              | TTI, ms                                                     |           | 20                             |       |        |  |
|              | Coding type                                                 |           | TC                             |       |        |  |
|              | CRC, bit                                                    |           | 16                             |       |        |  |
|              | Max number of bits/TTI after channel coding                 |           | 4 284                          |       |        |  |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 2 142                          |       |        |  |
|              | RM attribute                                                |           | 130 to 170                     |       |        |  |

6.11.4l.1.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.11.4l.1.1.1.3 TFCS

|           |                                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                                 |
| TFCS      | (64 kbps RAB + 64 kbps RAB+ 64 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0),<br>(TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |

6.11.4l.1.1.2 Physical channel parameters

|             |                                           |       |
|-------------|-------------------------------------------|-------|
| DPCH Uplink | Min spreading factor                      | 16    |
|             | Max number of DPDCH data bits/radio frame | 2 400 |
|             | Puncturing Limit                          | 0.92  |

## 6.11.4l.1.2 Downlink

## 6.11.4l.1.2.1 Transport channel parameters

## 6.11.4l.1.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

|              |                                             |           |                                |       |        |  |
|--------------|---------------------------------------------|-----------|--------------------------------|-------|--------|--|
| Higher layer | RAB/Signalling RB                           |           | RAB                            | RAB   | RAB    |  |
| RLC          | Logical channel type                        |           | DTCH                           | DTCH  | DTCH   |  |
|              | RLC mode                                    |           | AM                             | AM    | AM     |  |
|              | Payload sizes, bit                          |           | 320                            | 320   | 320    |  |
|              | Max data rate, bps                          |           | 64000                          | 64000 | 64 000 |  |
|              | AMD PDU header, bit                         |           | 16                             | 16    | 16     |  |
| MAC          | MAC header, bit                             |           | 4                              | 4     | 4      |  |
|              | MAC multiplexing                            |           | 3 logical channel multiplexing |       |        |  |
| Layer 1      | TrCH type                                   |           | DCH                            |       |        |  |
|              | TB sizes, bit                               |           | 340                            |       |        |  |
|              | TFS                                         | TF0, bits |                                | 0x340 |        |  |
|              |                                             | TF1, bits |                                | 1x340 |        |  |
|              |                                             | TF2, bits |                                | 2x340 |        |  |
|              |                                             | TF3, bits |                                | 3x340 |        |  |
|              |                                             | TF4, bits |                                | 4x340 |        |  |
|              | TTI, ms                                     |           | 20                             |       |        |  |
|              | Coding type                                 |           | TC                             |       |        |  |
|              | CRC, bit                                    |           | 16                             |       |        |  |
|              | Max number of bits/TTI after channel coding |           | 4 284                          |       |        |  |
|              | RM attribute                                |           | 130 to 170                     |       |        |  |

## 6.11.4l.1.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

## 6.11.4l.1.2.1.3 TFCS

|           |                                                                                                                                                                 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                              |
| TFCS      | (64 kbps RAB + 64 kbps + 64 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0),<br>(TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |

## 6.11.4l.1.2.2 Physical channel parameters

|               |                  |                           |          |
|---------------|------------------|---------------------------|----------|
| DPCH Downlink | DTX position     |                           | Flexible |
|               | Spreading factor |                           | 32       |
|               | DPCCH            | Number of TFCI bits/slot  | 8        |
|               |                  | Number of TPC bits/slot   | 4        |
|               |                  | Number of Pilot bits/slot | 8        |
|               | DPDCH            | Number of data bits/slot  | 140      |
|               |                  | Number of data bits/frame | 2 100    |

## 6.11.5 Reference Radio Bearer configurations used in Radio Bearer testing for 1.28 Mcps TDD

## 6.11.5.1 RABs and signalling RBs

See clause 6.10.3.1.

## 6.11.5.2 Combinations of RABs and Signalling RBs



In the present document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

NOTE: It is understood that for speech service the AMR mode may be operated asymmetrically for the uplink and downlink.

#### Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 1a) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (Multiframe).
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 2a) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH (Multiframe).
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75)kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB  
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB  
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Void.
- 19) Void.
- 20) Void.
- 21) Void.
- 22) Void.
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.(20 msTTI)
- 24) Void.
- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 31) Interactive or background / UL:64 DL:256 kbps / PS RAB  
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB  
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35) Interactive or background / UL:64 DL:2 048 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Void.
- 37) Void.

- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:32 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38a) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:0 DL:0 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38b) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38c) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:32 DL:32 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38d) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38e) Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB  
+ Interactive or background / UL:0 DL:0 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38f) Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38g) Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB  
+ Interactive or background / UL:16 DL:16 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38h) Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB  
+ Interactive or background / UL:32 DL:32 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38i) Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38j) Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB  
+ Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 39) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:32 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 41) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:256 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:384 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:128 DL:2 048 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Void.
- 47) Void.
- 48) Void.
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB  
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:16 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:128 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Void.
- 55) Void.
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 57) Interactive or Background / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 58) Streaming / Unknown / UL:16 DL:64 kbps / CS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 59) Reserved for future use
- 60) Reserved for future use

- 61) Conversational / Unknown / UL:8 DL:8 kbps / CS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 62) Interactive or background / UL:256 DL: 64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 63) Streaming / unknown / UL:16 DL:32 kbps / PS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 64) Streaming / unknown / UL:16 DL:128 kbps / PS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 65) Streaming / unknown / UL:32 DL:256 kbps / PS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 66) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:128 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 67) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Streaming / unknown / UL:16 DL:64 kbps / PS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 68) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Streaming / unknown / UL:16 DL:128 kbps / PS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 69) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Streaming / unknown / UL:128 DL:64 kbps / PS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 70) Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH

#### Combinations on PDSCH, SCCPCH, PUSCH and PRACH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB  
+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH  
+ UL:16.8 DL: 16 kbps SRBs for SHCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB  
+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH  
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 3) Interactive or background / UL:64 DL:2 048 kbps / PS RAB  
+ UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH  
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.

#### Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

- 1) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH  
+ Interactive or background / UL:64 DL:256 kbps / PS RAB  
+ UL:16.8 kbps SRBs for CCCH and SHCCH  
+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

- 2) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:384 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:2 048 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

#### Combinations on SCCPCH

- 1) Stand-alone SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH
  - + SRB for BCCH.
- 2a) Interactive/Background 32 kbps PS RAB
  - + Interactive/Background 32 kbps PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH
  - + SRB for BCCH.
- 2b) SRBs for CCCH
  - + SRB for DCCH
  - + SRB for BCCH.
- 3) Interactive or background / DL:32 kbps / PS RAB
  - + SRB for PCCH
  - + SRB for CCCH
  - + SRBs for DCCH
  - + SRB for BCCH.
- 3a) SRB for PCCH
  - + SRB for CCCH
  - + SRB for DCCH
  - + SRB for BCCH.
- 4) RB for CTCH
  - + SRB for CCCH
  - + SRB for BCCH.

#### Combinations on PRACH

- 1) SRB for CCCH
  - + SRBs for DCCH.
- 2) Interactive/Background 12.8 kbps PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH.
- 3) Interactive/Background 12.8 kbps PS RAB
  - + Interactive/Background 12.8 kbps PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH.

#### Combinations on DPCH and HS-PDSCH

- 1) Interactive or background / UL:8 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

- 1a) Interactive or background / UL:8 (multiframe) DL: [max bit rate depending on UE category] / PS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH (multiframe) (REL-5)
- 2) Interactive or background / UL:16 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 2a) Interactive or background / UL:16(multiframe) DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH(multiframe) (REL-5)
- 3) Interactive or background / UL:32 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 3a) Interactive or background / UL:32(multiframe) DL: [max bit rate depending on UE category] / PS RAB +UL:3.4 DL:3.4 kbps SRBs for DCCH(multiframe) (REL-5)
- 4) Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 5) Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 6) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 7) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 8) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 9) Interactive or background / UL:64 DL: [bit rate depending on UE category] / PS RAB + Interactive or background / UL:64 DL: [bit rate depending on UE category] / PS RAB+UL:3.4 DL:3.4 kbps SRBs for DCCH
- 10) Conversational/Speech/UL:12.2 DL:12.2kbps/CS RAB + interactive or Background / UL:64 kbps DL: [bit rate depending on UE category]/PS RAB + interactive or Background / UL:64 kbps DL: [bit rate depending on UE category]/PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 11) Streaming/ UL:32 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 12) Streaming/ UL:16 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 13) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + interactive or Background/ UL:384 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 14) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:16 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 15) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:32 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 16) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:64 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH
- 17) Streaming/ UL:64 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

#### Combinations on HS-PDSCH and E-PUCH

- 1) Stand-alone UL: [max bit rate depending on UE category and TTI] DL:[max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

- 2) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 3) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH
- 4) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH
- 5) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 7) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH
- 8) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 9) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 10) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 11) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 12) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 13) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 14) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 15) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 16) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 17) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 32 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 18) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 16 kbps / PS RAB + Streaming or interactive or



background / UL: [max bit rate depending on UE category and TTI] DL: 8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

- 19) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 20) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:32 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH
- 21) Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:16 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

### 6.11.5.3 Example of linkage between RABs and services

See clause 6.10.3.3.

### 6.11.5.4 Typical radio parameter sets

#### 6.11.5.4.1 Combinations on DPCH

##### 6.11.5.4.1.1 Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH

##### 6.11.5.4.1.1.1 Uplink

##### 6.11.5.4.1.1.1.1 Transport channel parameters

##### 6.11.5.4.1.1.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.1.

##### 6.11.5.4.1.1.1.1.2 TFCS

See clause 6.10.3.4.1.1.1.1.2.

##### 6.11.5.4.1.1.1.2 Physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF16 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 160 bits                     |
|             | TFCI code word / radio frame           | 8 bits                       |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 1                            |

##### 6.11.5.4.1.1.2 Downlink

##### 6.11.5.4.1.1.2.1 Transport channel parameters

##### 6.11.5.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

##### 6.11.5.4.1.1.2.1.2 TFCS

See clause 6.10.3.4.1.1.2.1.2.

##### 6.11.5.4.1.1.2.2 Physical channel parameters

|               |                                        |                              |
|---------------|----------------------------------------|------------------------------|
| DPCH Downlink | Modulation                             | QPSK                         |
|               | Codes and time slots / radio frame     | SF16 x 1 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 160 bits                     |
|               | TFCI code word / radio frame           | 8 bits                       |
|               | TPC / radio frame                      | 2x2 bits                     |

|  |                  |          |
|--|------------------|----------|
|  | SS / radio frame | 2x2 bits |
|  | Puncturing Limit | 1        |

6.11.5.4.1.1a Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe)

6.11.5.4.1.1a.1 Uplink

6.11.5.4.1.1a.1.1 Transport channel parameters

6.11.5.4.1.1a.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1a.1.1.1.

6.11.5.4.1.1a.1.1.2 TFCS

See clause 6.10.3.4.1.1a.1.1.2.

6.11.5.4.1.1a.1.2 Physical channel parameters

|                                                                                              |                                        |                              |
|----------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|
| DPCH Uplink                                                                                  | Modulation                             | QPSK                         |
|                                                                                              | Codes and time slots / radio frame     | SF16 x 1 code x 2 time slots |
|                                                                                              | Max. Number of data bits / radio frame | 160 bits                     |
|                                                                                              | TFCl code word / radio frame           | 8 bits                       |
|                                                                                              | TPC / radio frame                      | 2x2 bits                     |
|                                                                                              | SS / radio frame                       | 2x2 bits                     |
|                                                                                              | Puncturing Limit                       | 0.60                         |
|                                                                                              | Repetition period                      | 8                            |
|                                                                                              | Repetition length                      | 2                            |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bit. |                                        |                              |

6.11.5.4.1.1a.2 Downlink

6.11.5.4.1.1a.2.1 Transport channel parameters

6.11.5.4.1.1a.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1a.2.1.1.

6.11.5.4.1.1a.2.1.2 TFCS

See clause 6.10.3.4.1.1a.2.1.2.

6.11.5.4.1.1a.2.2 Physical channel parameters

|                                                                                              |                                        |                              |
|----------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|
| DPCH Uplink                                                                                  | Modulation                             | QPSK                         |
|                                                                                              | Codes and time slots / radio frame     | SF16 x 1 code x 2 time slots |
|                                                                                              | Max. Number of data bits / radio frame | 160 bits                     |
|                                                                                              | TFCl code word / radio frame           | 8 bits                       |
|                                                                                              | TPC / radio frame                      | 2x2 bits                     |
|                                                                                              | SS / radio frame                       | 2x2 bits                     |
|                                                                                              | Puncturing Limit                       | 0.60                         |
|                                                                                              | Repetition period                      | 8                            |
|                                                                                              | Repetition length                      | 2                            |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bit. |                                        |                              |

6.11.5.4.1.2 Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.2.1 Uplink

6.11.5.4.1.2.1.1 Transport channel parameters

6.11.5.4.1.2.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.2.1.1.2 TFCS

See clause 6.10.3.4.1.2.1.1.2.

## 6.11.5.4.1.2.1.2 Physical channel parameters

|                                                                                   |                                        |                              |
|-----------------------------------------------------------------------------------|----------------------------------------|------------------------------|
| DPCH Uplink                                                                       | Modulation                             | QPSK                         |
|                                                                                   | Codes and time slots / radio frame     | SF16 x 1 code x 2 time slots |
|                                                                                   | Max. Number of data bits / radio frame | 160 bits                     |
|                                                                                   | TFCI code word / radio frame           | 8 bits                       |
|                                                                                   | TPC / radio frame                      | 2x2 bits                     |
|                                                                                   | SS / radio frame                       | 2x2 bits                     |
|                                                                                   | Puncturing Limit                       | 1                            |
| NOTE: In case the first TFCS is not configured, the TFCI code word will be 4 bit. |                                        |                              |

## 6.11.5.4.1.2.2 Downlink

## 6.11.5.4.1.2.2.1 Transport channel parameters

## 6.11.5.4.1.2.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.2.2.1.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

## 6.11.5.4.1.2.2.2 Physical channel parameters

|                                                                                   |                                        |                              |
|-----------------------------------------------------------------------------------|----------------------------------------|------------------------------|
| DPCH Downlink                                                                     | Modulation                             | QPSK                         |
|                                                                                   | Codes and time slots / radio frame     | SF16 x 1 code x 2 time slots |
|                                                                                   | Max. Number of data bits / radio frame | 160 bits                     |
|                                                                                   | TFCI code word / radio frame           | 8 bits                       |
|                                                                                   | TPC / radio frame                      | 2x2 bits                     |
|                                                                                   | SS / radio frame                       | 2x2 bits                     |
|                                                                                   | Puncturing Limit                       | 1                            |
| NOTE: In case the first TFCS is not configured, the TFCI code word will be 4 bit. |                                        |                              |

## 6.11.5.4.1.2a Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH (multiframe)

## 6.11.5.4.1.2a.1 Uplink

## 6.11.5.4.1.2a.1.1 Transport channel parameters

## 6.11.5.4.1.2a.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH (multiframe)

| Higher layer | RAB/signalling RB                           | SRB#1                          | SRB#2 | SRB#3                   | SRB#4                  |
|--------------|---------------------------------------------|--------------------------------|-------|-------------------------|------------------------|
|              | User of Radio Bearer                        | RRC                            | RRC   | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC          | Logical channel type                        | DCCH                           | DCCH  | DCCH                    | DCCH                   |
|              | RLC mode                                    | UM                             | AM    | AM                      | AM                     |
|              | Payload sizes, bit                          | 136                            | 128   | 128                     | 128                    |
|              | Max data rate, bps                          | 3 400                          | 3 200 | 3 200                   | 3 200                  |
|              | AMD/UMD PDU header, bit                     | 8                              | 16    | 16                      | 16                     |
| MAC          | MAC header, bit                             | 4                              | 4     | 4                       | 4                      |
|              | MAC multiplexing                            | 4 logical channel multiplexing |       |                         |                        |
| Layer 1      | TrCH type                                   | DCH                            |       |                         |                        |
|              | TB sizes, bit                               | 148 (alt. 0,148) (note)        |       |                         |                        |
|              | TFS                                         | 0x148 (alt. 1x0) (note)        |       |                         |                        |
|              |                                             | 1x148                          |       |                         |                        |
|              | TTI, ms                                     | 20                             |       |                         |                        |
|              | Coding type                                 | CC 1/3                         |       |                         |                        |
|              | CRC, bit                                    | 16                             |       |                         |                        |
|              | Max number of bits/TTI before rate matching | 516                            |       |                         |                        |

|                                                                                            |                                                     |            |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|
|                                                                                            | Max number of bits/radio frame before rate matching | 516        |
|                                                                                            | RM attribute                                        | 155 to 165 |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UTRAN. |                                                     |            |

## 6.11.5.4.1.2a.1.1.2 TFCS

See clause 6.10.3.4.1.2.1.1.2.

## 6.11.5.4.1.2a.1.2 Physical channel parameters

|                                                                                   |                                        |                             |
|-----------------------------------------------------------------------------------|----------------------------------------|-----------------------------|
| DPCH Uplink                                                                       | Modulation                             | QPSK                        |
|                                                                                   | Codes and time slots / radio frame     | SF8 x 1 code x 2 time slots |
|                                                                                   | Max. Number of data bits / radio frame | 336 bits                    |
|                                                                                   | TFCl code word / radio frame           | 8 bits                      |
|                                                                                   | TPC / radio frame                      | 2x2 bit                     |
|                                                                                   | SS / radio frame                       | 2x2 bit                     |
|                                                                                   | Puncturing Limit                       | 0.64                        |
|                                                                                   | Repetition period                      | 8                           |
|                                                                                   | Repetition length                      | 2                           |
| NOTE: In case the first TFCS is not configured, the TFCl code word will be 4 bit. |                                        |                             |

## 6.11.5.4.1.2a.2 Downlink

## 6.11.5.4.1.2a.2.1 Transport channel parameters

## 6.11.5.4.1.2a.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH (multiframe)

|                                                                                         |                                                     |           |                                |       |                         |                        |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|--------------------------------|-------|-------------------------|------------------------|
| Higher layer                                                                            | RAB/signalling RB                                   |           | SRB#1                          | SRB#2 | SRB#3                   | SRB#4                  |
|                                                                                         | User of Radio Bearer                                |           | RRC                            | RRC   | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC                                                                                     | Logical channel type                                |           | DCCH                           | DCCH  | DCCH                    | DCCH                   |
|                                                                                         | RLC mode                                            |           | UM                             | AM    | AM                      | AM                     |
|                                                                                         | Payload sizes, bit                                  |           | 136                            | 128   | 128                     | 128                    |
|                                                                                         | Max data rate, bps                                  |           | 3 400                          | 3 200 | 3 200                   | 3 200                  |
|                                                                                         | AMD/UMD PDU header, bit                             |           | 8                              | 16    | 16                      | 16                     |
| MAC                                                                                     | MAC header, bit                                     |           | 4                              | 4     | 4                       | 4                      |
|                                                                                         | MAC multiplexing                                    |           | 4 logical channel multiplexing |       |                         |                        |
| Layer 1                                                                                 | TrCH type                                           |           | DCH                            |       |                         |                        |
|                                                                                         | TB sizes, bit                                       |           | 148 (alt. 0, 148) (note)       |       |                         |                        |
|                                                                                         | TFS                                                 | TF0, bits | 0x148 (alt. 1x0) (note)        |       |                         |                        |
|                                                                                         |                                                     | TF1, bits | 1x148                          |       |                         |                        |
|                                                                                         | TTI, ms                                             |           | 20                             |       |                         |                        |
|                                                                                         | Coding type                                         |           | CC 1/3                         |       |                         |                        |
|                                                                                         | CRC, bit                                            |           | 16                             |       |                         |                        |
|                                                                                         | Max number of bits/TTI before rate matching         |           | 516                            |       |                         |                        |
|                                                                                         | Max number of bits/radio frame before rate matching |           | 516                            |       |                         |                        |
|                                                                                         | RM attribute                                        |           | 155 to 165                     |       |                         |                        |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. |                                                     |           |                                |       |                         |                        |

## 6.11.5.4.1.2a.2.1.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

## 6.11.5.4.1.2a.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 336 bits                      |
|               | TFCl code word / radio frame           | 8 bits                        |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |

|                                                                                   |                   |      |
|-----------------------------------------------------------------------------------|-------------------|------|
|                                                                                   | Puncturing Limit  | 0.64 |
|                                                                                   | Repetition period | 8    |
|                                                                                   | Repetition length | 2    |
| NOTE: In case the first TFCS is not configured, the TFCI code word will be 4 bit. |                   |      |

6.11.5.4.1.3 Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH

6.11.5.4.1.3.1 Uplink

6.11.5.4.1.3.1.1 Transport channel parameters

6.11.5.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

See clause 6.10.3.4.1.3.1.1.1.

6.11.5.4.1.3.1.1.2 TFCS

See clause 6.10.3.4.1.3.1.1.2.

6.11.5.4.1.3.1.2 Physical channel parameters

|                                                                                   |                                        |                             |
|-----------------------------------------------------------------------------------|----------------------------------------|-----------------------------|
| DPCH Uplink                                                                       | Modulation                             | QPSK                        |
|                                                                                   | Codes and time slots / radio frame     | SF8 x 1 code x 2 time slots |
|                                                                                   | Max. Number of data bits / radio frame | 336 bits                    |
|                                                                                   | TFCI code word / radio frame           | 8 bits                      |
|                                                                                   | TPC / radio frame                      | 2x2 bit                     |
|                                                                                   | SS / radio frame                       | 2x2 bit                     |
|                                                                                   | Puncturing Limit                       | 0.64                        |
| NOTE: In case the first TFCS is not configured, the TFCI code word will be 4 bit. |                                        |                             |

6.11.5.4.1.3.2 Downlink

6.11.5.4.1.3.2.1 Transport channel parameters

6.11.5.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

See clause 6.10.3.4.1.3.2.1.1.

6.11.5.4.1.3.2.1.2 TFCS

See clause 6.10.3.4.1.3.2.1.2.

6.11.5.4.1.3.2.2 Physical channel parameters

|                                                                                   |                                        |                               |
|-----------------------------------------------------------------------------------|----------------------------------------|-------------------------------|
| DPCH Downlink                                                                     | Modulation                             | QPSK                          |
|                                                                                   | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|                                                                                   | Max. Number of data bits / radio frame | 336 bits                      |
|                                                                                   | TFCI code word / radio frame           | 8 bits                        |
|                                                                                   | TPC / radio frame                      | 2x2 bits                      |
|                                                                                   | SS / radio frame                       | 2x2 bits                      |
|                                                                                   | Puncturing Limit                       | 0.64                          |
| NOTE: In case the first TFCS is not configured, the TFCI code word will be 4 bit. |                                        |                               |

6.11.5.4.1.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.4.1 Uplink

6.11.5.4.1.4.1.1 Transport channel parameters

6.11.5.4.1.4.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.4.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.11.5.4.1.4.1.1.3 TFCS

See clause 6.10.3.4.1.4.1.1.3.

#### 6.11.5.4.1.4.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / radio frame     | SF8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 0.48                        |

#### 6.11.5.4.1.4.2 Downlink

##### 6.11.5.4.1.4.2.1 Transport channel parameters

##### 6.11.5.4.1.4.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

##### 6.11.5.4.1.4.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.11.5.4.1.4.2.1.3 TFCS

See clause 6.10.3.4.1.4.2.1.3.

#### 6.11.5.4.1.4.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 328 bits                      |
|               | TFCI code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.48                          |

#### 6.11.5.4.1.4a Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.5.4.1.4a.1 Uplink

##### 6.11.5.4.1.4a.1.1 Transport channel parameters

##### 6.11.5.4.1.4a.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

##### 6.11.5.4.1.4a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.11.5.4.1.4a.1.1.3 TFCS

See clause 6.10.3.4.1.4a.1.1.3.

#### 6.11.5.4.1.4a.1.2 Physical channel parameters

|             |                                    |                             |
|-------------|------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                         | QPSK                        |
|             | Codes and time slots / radio frame | SF8 x 1 code x 2 time slots |

|  |                                        |          |
|--|----------------------------------------|----------|
|  | Max. Number of data bits / radio frame | 328 bits |
|  | TFCI code word / radio frame           | 16 bits  |
|  | TPC / radio frame                      | 2x2 bits |
|  | SS / radio frame                       | 2x2 bits |
|  | Puncturing Limit                       | 0.48     |

#### 6.11.5.4.1.4a.2 Downlink

##### 6.11.5.4.1.4a.2.1 Transport channel parameters

##### 6.11.5.4.1.4a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

##### 6.11.5.4.1.4a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.11.5.4.1.4a.2.1.3 TFCS

See clause 6.10.3.4.1.4a.1.2.1.3.

##### 6.11.5.4.1.4a.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 328 bits                      |
|               | TFCI code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.48                          |

##### 6.11.5.4.1.5 Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.5.4.1.5.1 Uplink

##### 6.11.5.4.1.5.1.1 Transport channel parameters

##### 6.11.5.4.1.5.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 kbps / CS RAB

See clause 6.10.3.4.1.5.1.1.1.

##### 6.11.5.4.1.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

##### 6.11.5.4.1.5.1.1.3 TFCS

See clause 6.10.3.4.1.5.1.1.3.

##### 6.11.5.4.1.5.1.2 Physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 0.52                         |

#### 6.11.5.4.1.5.2 Downlink

##### 6.11.5.4.1.5.2.1 Transport channel parameters

6.11.5.4.1.5.2.1.1 Transport channel parameters for Conversational / speech / DL:10.2 kbps / CS RAB

See clause 6.10.3.4.1.5.2.1.1.

6.11.5.4.1.5.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.5.2.1.3 TFCS

See clause 6.10.3.4.1.5.2.1.3.

6.11.5.4.1.5.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 328 bits                      |
|               | TFCI code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.52                          |

6.11.5.4.1.5a Conversational / speech / UL:10.2 6.7 5.9 4.75 DL:10.2 6.7 5.9 4.75 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.5a.1 Uplink

6.11.5.4.1.5a.1.1 Transport channel parameters

6.11.5.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 6.7 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.5a.1.1.1.

6.11.5.4.1.5a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.5a.1.1.3 TFCS

See clause 6.10.3.4.1.5a.1.1.3.

6.11.5.4.1.5a.1.2 Physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 0.52                         |

6.11.5.4.1.5a.2 Downlink

6.11.5.4.1.5a.2.1 Transport channel parameters

6.11.5.4.1.5a.2.1.1 Transport channel parameters for Conversational / speech / DL: 10.2 6.7 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.5a.2.1.1.

6.11.5.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.5a.2.1.3 TFCS



See clause 6.10.3.4.1.5a.2.1.3.

#### 6.11.5.4.1.5a.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 328 bits                      |
|               | TFCl code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.52                          |

#### 6.11.5.4.1.6 Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.5.4.1.6.1 Uplink

##### 6.11.5.4.1.6.1.1 Transport channel parameters

##### 6.11.5.4.1.6.1.1.1 Transport channel parameters for Conversational / speech / UL:7.95 kbps / CS RAB

See clause 6.10.3.4.1.6.1.1.1.

##### 6.11.5.4.1.6.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

##### 6.11.5.4.1.6.1.1.3 TFCS

See clause 6.10.3.4.1.6.1.1.3.

##### 6.11.5.4.1.6.1.2 Physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCl code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 0.60                         |

##### 6.11.5.4.1.6.2 Downlink

##### 6.11.5.4.1.6.2.1 Transport channel parameters

##### 6.11.5.4.1.6.2.1.1 Transport channel parameters for Conversational / speech / DL:7.95 kbps / CS RAB

See clause 6.10.3.4.1.6.2.1.1.

##### 6.11.5.4.1.6.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.11.5.4.1.6.2.1.3 TFCS

See clause 6.10.3.4.1.6.2.1.3.

##### 6.11.5.4.1.6.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 328 bits                      |
|               | TFCl code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.60                          |

6.11.5.4.1.7 Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.7.1 Uplink

6.11.5.4.1.7.1.1 Transport channel parameters

6.11.5.4.1.7.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 kbps / CS RAB

See clause 6.10.3.4.1.7.1.1.1.

6.11.5.4.1.7.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.7.1.1.3 TFCS

See clause 6.10.3.4.1.7.1.1.3.

6.11.5.4.1.7.1.2 Physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 0.64                         |

6.11.5.4.1.7.2 Downlink

6.11.5.4.1.7.2.1 Transport channel parameters

6.11.5.4.1.7.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 kbps / CS RAB

See clause 6.10.3.4.1.7.2.1.1.

6.11.5.4.1.7.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.7.2.1.3 TFCS

See clause 6.10.3.4.1.7.2.1.3.

6.11.5.4.1.7.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 328 bits                      |
|               | TFCI code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.64                          |

6.11.5.4.1.7a Conversational / speech / UL:7.4 6.7 5.9 4.75 DL:7.4 6.7 5.9 4.75 / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.7a.1 Uplink

6.11.5.4.1.7a.1.1 Transport channel parameters

6.11.5.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 6.7 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.7a.1.1.1.

6.11.5.4.1.7a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.7a.1.1.3 TFCS

See clause 6.10.3.4.1.7a.1.1.3.

6.11.5.4.1.7a.1.2 Physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 0.64                         |

6.11.5.4.1.7a.2 Downlink

6.11.5.4.1.7a.2.1 Transport channel parameters

6.11.5.4.1.7a.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 6.7 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.7a.2.1.1.

6.11.5.4.1.7a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.7a.2.1.3 TFCS

See clause 6.10.3.4.1.7a.2.1.3.

6.11.5.4.1.7a.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 328 bits                      |
|               | TFCI code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.64                          |

6.11.5.4.1.8 Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.8.1 Uplink

6.11.5.4.1.8.1.1 Transport channel parameters

6.11.5.4.1.8.1.1.1 Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB

See clause 6.10.3.4.1.8.1.1.1.

6.11.5.4.1.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.8.1.1.3 TFCS

See clause 6.10.3.4.1.8.1.1.3.

## 6.11.5.4.1.8.1.2 Physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 0.68                         |

## 6.11.5.4.1.8.2 Downlink

## 6.11.5.4.1.8.2.1 Transport channel parameters

## 6.11.5.4.1.8.2.1.1 Transport channel parameters for Conversational / speech / DL:6.7 kbps / CS RAB

See clause 6.10.3.4.1.8.2.1.1.

## 6.11.5.4.1.8.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.8.2.1.3 TFCS

See clause 6.10.3.4.1.8.2.1.3.

## 6.11.5.4.1.8.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 328 bits                      |
|               | TFCI code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.68                          |

## 6.11.5.4.1.9 Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.9.1 Uplink

## 6.11.5.4.1.9.1.1 Transport channel parameters

## 6.11.5.4.1.9.1.1.1 Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB

See clause 6.10.3.4.1.9.1.1.1.

## 6.11.5.4.1.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.9.1.1.3 TFCS

See clause 6.10.3.4.1.9.1.1.3.

## 6.11.5.4.1.9.1.2 Physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 0.72                         |

## 6.11.5.4.1.9.2 Downlink

## 6.11.5.4.1.9.2.1 Transport channel parameters

## 6.11.5.4.1.9.2.1.1 Transport channel parameters for Conversational / speech / DL:5.9 kbps / CS RAB

See clause 6.10.3.4.1.9.2.1.1.

## 6.11.5.4.1.9.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.9.2.1.3 TFCS

See clause 6.10.3.4.1.9.2.1.3.

## 6.11.5.4.1.9.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 328 bits                      |
|               | TFCl code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.72                          |

## 6.11.5.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

## 6.11.5.4.1.10.1 Uplink

## 6.11.5.4.1.10.1.1 Transport channel parameters

## 6.11.5.4.1.10.1.1.1 Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB

See clause 6.10.3.4.1.10.1.1.1.

## 6.11.5.4.1.10.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.1.

## 6.11.5.4.1.10.1.1.3 TFCS

See clause 6.10.3.4.1.10.1.1.3.

## 6.11.5.4.1.10.1.2 Physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCl code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 0.96                         |

## 6.11.5.4.1.10.2 Downlink

## 6.11.5.4.1.10.2.1 Transport channel parameters

## 6.11.5.4.1.10.2.1.1 Transport channel parameters for Conversational / speech / DL:5.15 kbps / CS RAB

See clause 6.10.3.4.1.10.2.1.1.

## 6.11.5.4.1.10.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

## 6.11.5.4.1.10.2.1.3 TFCS

See clause 6.10.3.4.1.10.2.1.3.

## 6.11.5.4.1.10.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 328 bits                      |
|               | TFCI code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.96                          |

## 6.11.5.4.1.11 Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

## 6.11.5.4.1.11.1 Uplink

## 6.11.5.4.1.11.1.1 Transport channel parameters

## 6.11.5.4.1.11.1.1.1 Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB

See clause 6.10.3.4.1.11.1.1.1.

## 6.11.5.4.1.11.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.11.1.1.1.

## 6.11.5.4.1.11.1.1.3 TFCS

See clause 6.10.3.4.1.11.1.1.3.

## 6.11.5.4.1.11.1.2 Physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 1                            |

## 6.11.5.4.1.11.2 Downlink

## 6.11.5.4.1.11.2.1 Transport channel parameters

## 6.11.5.4.1.11.2.1.1 Transport channel parameters for Conversational / speech / DL:4.75 kbps / CS RAB

See clause 6.10.3.4.1.11.2.1.1.

## 6.11.5.4.1.11.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.11.2.1.1.

## 6.11.5.4.1.11.2.1.3 TFCS

See clause 6.10.3.4.1.11.2.1.3.

## 6.11.5.4.1.11.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 328 bits                      |
|               | TFCI code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |

|  |                  |          |
|--|------------------|----------|
|  | SS / radio frame | 2x2 bits |
|  | Puncturing Limit | 1        |

6.11.5.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.12.1 Uplink

6.11.5.4.1.12.1.1 Transport channel parameters

6.11.5.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB

See clause 6.10.3.4.1.12.1.1.1.

6.11.5.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.12.1.1.3 TFCS

See clause 6.10.3.4.1.12.1.1.3.

6.11.5.4.1.12.1.2 Physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                     |
|             | TFI code word / radio frame            | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 0.52                         |

6.11.5.4.1.12.2 Downlink

6.11.5.4.1.12.2.1 Transport channel parameters

6.11.5.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB

See clause 6.10.3.4.1.12.2.1.1.

6.11.5.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.12.2.1.3 TFCS

See clause 6.10.3.4.1.12.2.1.3.

6.11.5.4.1.12.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 4 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 680 bits                      |
|               | TFI code word / radio frame            | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.52                          |

6.11.5.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.13.1 Uplink

6.11.5.4.1.13.1.1 Transport channel parameters

6.11.5.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.13.1.1.3 TFCS

See clause 6.10.3.4.1.13.1.1.3.

6.11.5.4.1.13.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / radio frame     | SF2 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 1 384 bits                  |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 0.52                        |

6.11.5.4.1.13.2 Downlink

6.11.5.4.1.13.2.1 Transport channel parameters

6.11.5.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.13.2.1.3 TFCS

See clause 6.10.3.4.1.13.2.1.3.

6.11.5.4.1.13.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 8 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 1 384 bits                    |
|               | TFCI code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.52                          |

6.11.5.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.14.1 Uplink

6.11.5.4.1.14.1.1 Transport channel parameters

6.11.5.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB

See clause 6.10.3.4.1.14.1.1.1.

6.11.5.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.14.1.1.3 TFCS

See clause 6.10.3.4.1.14.1.1.3.



## 6.11.5.4.1.14.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / radio frame     | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 0.44                        |

## 6.11.5.4.1.14.2 Downlink

## 6.11.5.4.1.14.2.1 Transport channel parameters

## 6.11.5.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB

See clause 6.10.3.4.1.14.2.1.1.

## 6.11.5.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.14.2.1.3 TFCS

See clause 6.10.3.4.1.14.2.1.3.

## 6.11.5.4.1.14.2.2 Physical channel parameters

|               |                                        |                              |
|---------------|----------------------------------------|------------------------------|
| DPCH Downlink | Modulation                             | QPSK                         |
|               | Codes and time slots / radio frame     | SF16 x 4 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 680 bits                     |
|               | TFCI code word / radio frame           | 16 bits                      |
|               | TPC / radio frame                      | 2x2 bits                     |
|               | SS / radio frame                       | 2x2 bits                     |
|               | Puncturing Limit                       | 0.44                         |

## 6.11.5.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.15.1 Uplink

## 6.11.5.4.1.15.1.1 Transport channel parameters

## 6.11.5.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB

See clause 6.10.3.4.1.15.1.1.1.

## 6.11.5.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.15.1.1.3 TFCS

See clause 6.10.3.4.1.15.1.1.3.

## 6.11.5.4.1.15.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / radio frame     | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 1                           |

## 6.11.5.4.1.15.2 Downlink

## 6.11.5.4.1.15.2.1 Transport channel parameters

## 6.11.5.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB

See clause 6.10.3.4.1.15.2.1.1.

## 6.11.5.4.1.15.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.15.2.1.3 TFCS

See clause 6.10.3.4.1.15.2.1.3.

## 6.11.5.4.1.15.2.2 Physical channel parameters

|               |                                       |                              |
|---------------|---------------------------------------|------------------------------|
| DPCH Downlink | Modulation                            | QPSK                         |
|               | Codes and time slots / radio frame    | SF16 x 3 code x 2 time slots |
|               | Max. Number of data bits / radio rame | 504 bits                     |
|               | TFCI code word / radio frame          | 16 bits                      |
|               | TPC / radio frame                     | 2x2 bits                     |
|               | SS / radio frame                      | 2x2 bits                     |
|               | Puncturing Limit                      | 0.76                         |

## 6.11.5.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.16.1 Uplink

## 6.11.5.4.1.16.1.1 Transport channel parameters

## 6.11.5.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB

See clause 6.10.3.4.1.16.1.1.1.

## 6.11.5.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.16.1.1.3 TFCS

See clause 6.10.3.4.1.16.1.1.3.

## 6.11.5.4.1.16.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / frame           | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 0.56                        |

## 6.11.5.4.1.16.2 Downlink

## 6.11.5.4.1.16.2.1 Transport channel parameters

## 6.11.5.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB

See clause 6.10.3.4.1.16.2.1.1.

## 6.11.5.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.16.2.1.3 TFCS

See clause 6.10.3.4.1.16.2.1.3.

## 6.11.5.4.1.16.2.2 Physical channel parameters

|               |                                        |                              |
|---------------|----------------------------------------|------------------------------|
| DPCH Downlink | Modulation                             | QPSK                         |
|               | Codes and time slots / radio frame     | SF16 x 4 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 680 bits                     |
|               | TFCI code word / radio frame           | 16 bits                      |
|               | TPC / radio frame                      | 2x2 bits                     |
|               | SS / radio frame                       | 2x2 bits                     |
|               | Puncturing Limit                       | 0.56                         |

## 6.11.5.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.17.1 Uplink

## 6.11.5.4.1.17.1.1 Transport channel parameters

## 6.11.5.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

See clause 6.10.3.4.1.17.1.1.1.

## 6.11.5.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.17.1.1.3 TFCS

See clause 6.10.3.4.1.17.1.1.3.

## 6.11.5.4.1.17.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / radio frame     | SF2 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 1 384 bits                  |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 0.68                        |

## 6.11.5.4.1.17.2 Downlink

## 6.11.5.4.1.17.2.1 Transport channel parameters

## 6.11.5.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

See clause 6.10.3.4.1.17.2.1.1.

## 6.11.5.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.17.2.1.3 TFCS

See clause 6.10.3.4.1.17.2.1.3.

## 6.11.5.4.1.17.2.2 Physical channel parameters

|               |                                        |                              |
|---------------|----------------------------------------|------------------------------|
| DPCH Downlink | Modulation                             | QPSK                         |
|               | Codes and time slots / radio frame     | SF16 x 8 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 1 384 bits                   |
|               | TFCI code word / radio frame           | 16 bits                      |
|               | TPC / radio frame                      | 2x2 bits                     |

|  |                  |          |
|--|------------------|----------|
|  | SS / radio frame | 2x2 bits |
|  | Puncturing Limit | 0.68     |

- 6.11.5.4.1.18 Void
- 6.11.5.4.1.19 Void
- 6.11.5.4.1.20 Void
- 6.11.5.4.1.21 Void
- 6.11.5.4.1.22 Void
- 6.11.5.4.1.23 Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.11.5.4.1.23.1 Uplink

6.11.5.4.1.23.1.1 Transport channel parameters

6.11.5.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.11.5.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23.1.1.3 TFCS

See clause 6.10.3.4.1.23.1.1.3.

6.11.5.4.1.23.1.2 Physical channel parameters

|             |                                      |                              |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation                           | QPSK                         |
|             | Codes and time slots / radio frame   | SF 4 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 680bits                      |
|             | TFPI code word / radio frame         | 16 bits                      |
|             | TPC / radio frame                    | 2x2 bits                     |
|             | SS / radio frame                     | 2x2 bits                     |
|             | Puncturing Limit                     | 0.48 (alt. 0.44)             |

6.11.5.4.1.23.2 Downlink

6.11.5.4.1.23.2.1 Transport channel parameters

6.11.5.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.23.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23.2.1.3 TFCS

See clause 6.10.3.4.1.23.2.1.3.

6.11.5.4.1.23.2.2 Physical channel parameters

|               |                                      |                                |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation                           | QPSK                           |
|               | Codes and time slots / radio frame   | SF 16 x 2 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 336 bits                       |
|               | TFPI code word / radio frame         | 8 bits                         |
|               | TPC / radio frame                    | 2x2 bits                       |
|               | SS / radio frame                     | 2x2 bits                       |

|  |                  |      |
|--|------------------|------|
|  | Puncturing Limit | 0.76 |
|--|------------------|------|

6.11.5.4.1.23a Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.23a.1 Uplink

6.11.5.4.1.23a.1.1 Transport channel parameters

6.11.5.4.1.23a.1.1.1 Transport channel parameters for Interactive or background / UL:8kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.23a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23a.1.1.3 TFCS

See clause 6.10.3.4.1.23a.1.1.3.

6.11.5.4.1.23a.1.2 Physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 0.72 (alt 0.68)              |

6.11.5.4.1.23a.2 Downlink

See clause 6.11.5.4.1.23.2.

6.11.5.4.1.23b Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.23b.1 Uplink

6.11.5.4.1.23b.1.1 Transport channel parameters

6.11.5.4.1.23b.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.1.1.1.

6.11.5.4.1.23b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23b.1.1.3 TFCS

See clause 6.10.3.4.1.23b.1.1.3.

6.11.5.4.1.23b.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / radio frame     | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 688 bits                    |
|             | TFCI code word / radio frame           | 16bits                      |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 0.92 alt (0.84)             |

6.11.5.4.1.23b.2 Downlink

#### 6.11.5.4.1.23b.2.1 Transport channel parameters

##### 6.11.5.4.1.23b.2.1.1 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.2.1.1.

##### 6.11.5.4.1.23b.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.11.5.4.1.23b.2.1.3 TFCS

See clause 6.10.3.4.1.23b.2.1.3.

#### 6.11.5.4.1.23b.2.2 Physical channel parameters

|               |                                        |                              |
|---------------|----------------------------------------|------------------------------|
| DPCH Downlink | Modulation                             | QPSK                         |
|               | Codes and time slots / radio frame     | SF16 x 3 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 512 bits                     |
|               | TFPI code word / radio frame           | 16 bits                      |
|               | TPC / radio frame                      | 2x2 bits                     |
|               | SS / radio frame                       | 2x2 bits                     |
|               | Puncturing Limit                       | 0.68                         |

#### 6.11.5.4.1.23c Interactive or background / UL:32 DL32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.5.4.1.23c.1 Uplink

##### 6.11.5.4.1.23c.1.1 Transport channel parameters

##### 6.11.5.4.1.23c.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23c.1.1.1.

##### 6.11.5.4.1.23c.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

##### 6.11.5.4.1.23c.1.1.3 TFCS

See clause 6.10.3.4.1.23c.1.1.3.

#### 6.11.5.4.1.23c.1.2 Physical channel parameters

|             |                                      |                              |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation                           | QPSK                         |
|             | Codes and time slots / radio frame   | SF 4 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 680bits                      |
|             | TFPI code word / radio frame         | 16 bits                      |
|             | TPC / radio frame                    | 2x2 bits                     |
|             | SS / radio frame                     | 2x2 bits                     |
|             | Puncturing Limit                     | 0.48 (alt 0.44)              |

#### 6.11.5.4.1.23c.2 Downlink

##### 6.11.5.4.1.23c.2.1 Transport channel parameters

##### 6.11.5.4.1.23c.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23c.2.1.1.

##### 6.11.5.4.1.23c.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.11.5.4.1.23c.2.1.3 TFCS

See clause 6.10.3.4.1.23c.2.1.3.

#### 6.11.5.4.1.23c.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Modulation                           | QPSK                         |
|               | Codes and time slots / radio frame   | SF16 x 4 code x 2 time slots |
|               | Max. Number of data bits/radio frame | 680 bits                     |
|               | TFCI code word / radio frame         | 16 bits                      |
|               | TPC / radio frame                    | 2x2 bits                     |
|               | SS / radio frame                     | 2x2 bits                     |
|               | Puncturing Limit                     | 0.48                         |

#### 6.11.5.4.1.23d Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.5.4.1.23d.1 Uplink

##### 6.11.5.4.1.23d.1.1 Transport channel parameters

##### 6.11.5.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.1.1.1.

##### 6.11.5.4.1.23d.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

##### 6.11.5.4.1.23d.1.1.3 TFCS

See clause 6.10.3.4.1.23d.1.1.3.

##### 6.11.5.4.1.23d.1.2 Physical channel parameters

|             |                                      |                              |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation                           | QPSK                         |
|             | Codes and time slots / radio frame   | SF 4 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 680 bits                     |
|             | TFCI code word / radio frame         | 16 bits                      |
|             | TPC / radio frame                    | 2x2 bits                     |
|             | SS / radio frame                     | 2x2 bits                     |
|             | Puncturing Limit                     | 0.48 (alt. 0.44)             |

##### 6.11.5.4.1.23d.2 Downlink

##### 6.11.5.4.1.23d.2.1 Transport channel parameters

##### 6.11.5.4.1.23d.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

##### 6.11.5.4.1.23d.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.11.5.4.1.23d.2.1.3 TFCS

See clause 6.10.3.4.1.23d.2.1.3.

##### 6.11.5.4.1.23d.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Modulation                           | QPSK                         |
|               | Codes and time slots / radio frame   | SF16 x 4 code x 2 time slots |
|               | Max. Number of data bits/radio frame | 680 bits                     |
|               | TFCI code word / radio frame         | 16 bits                      |
|               | TPC / radio frame                    | 2x2 bits                     |
|               | SS / radio frame                     | 2x2 bits                     |
|               | Puncturing Limit                     | 0.48                         |

- 6.11.5.4.1.24 Void.
- 6.11.5.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

- 6.11.5.4.1.25.1 Uplink

See clause 6.11.5.4.1.23.1.

- 6.11.5.4.1.25.2 Downlink

- 6.11.5.4.1.25.2.1 Transport channel parameters

- 6.11.5.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

- 6.11.5.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

- 6.11.5.4.1.25.2.1.3 TFCS

See clause 6.10.3.4.1.25.2.1.3.

- 6.11.5.4.1.25.2.2 Physical channel parameters

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                           | QPSK                          |
|               | Codes and time slots / radio frame   | SF16 x 8 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 1 384 bits                    |
|               | TFCI code word / radio frame         | 16 bits                       |
|               | TPC / radio frame                    | 2x2 bits                      |
|               | SS / radio frame                     | 2x2 bits                      |
|               | Puncturing Limit/ radio frame        | 0.56                          |

- 6.11.5.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

- 6.11.5.4.1.26.1 Uplink

- 6.11.5.4.1.26.1.1 Transport channel parameters

- 6.11.5.4.1.26.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

- 6.11.5.4.1.26.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

- 6.11.5.4.1.26.1.1.3 TFCS

See clause 6.10.3.4.1.26.1.1.3.

- 6.11.5.4.1.26.1.2 Physical channel parameters

|             |                                      |                             |                             |
|-------------|--------------------------------------|-----------------------------|-----------------------------|
| DPCH Uplink |                                      | Physical 1                  | Physical 2                  |
|             | Modulation                           | QPSK                        | QPSK                        |
|             | Codes and time slots / radio frame   | SF2 x 1 code x 2 time slots | SF1 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 1 384 bits                  | 2 792 bits                  |
|             | TFCI code word / radio frame         | 16 bits                     | 16 bits                     |
|             | TPC / radio frame                    | 2x2 bits                    | 2x2 bits                    |
|             | SS / radio frame                     | 2x2 bits                    | 2x2 bits                    |
|             | Puncturing Limit                     | 0.56 (alt 0.48)             | 1                           |



## 6.11.5.4.1.26.2 Downlink

See clause 6.11.5.4.1.25.2.

## 6.11.5.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.27.1 Uplink

See clause 6.11.5.4.1.26.1.

## 6.11.5.4.1.27.2 Downlink

## 6.11.5.4.1.27.2.1 Transport channel parameters

## 6.11.5.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

## 6.11.5.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.27.2.1.3 TFCS

See clause 6.10.3.4.1.27.2.1.3.

## 6.11.5.4.1.27.2.2 Physical channel parameters

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                           | QPSK                          |
|               | Codes and time slots / radio frame   | SF 1 x 1 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 3 144 bits                    |
|               | TFCI code word / radio frame         | 16 bits                       |
|               | TPC / radio frame                    | 2x2 bits                      |
|               | SS / radio frame                     | 2x2 bits                      |
|               | Puncturing Limit                     | 0.48                          |

## 6.11.5.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.28.1 Uplink

## 6.11.5.4.1.28.1.1 Transport channel parameters

## 6.11.5.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

## 6.11.5.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.28.1.1.3 TFCS

See clause 6.10.3.4.1.28.1.1.3.

## 6.11.5.4.1.28.1.2 Physical channel parameters

|             |                                      |                              |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation                           | QPSK                         |
|             | Codes and time slots / radio frame   | SF1 x 1 codes x 2 time slots |
|             | Max. Number of data bits/radio frame | 2 792 bits                   |
|             | TFCI code word / radio frame         | 16 bits                      |
|             | TPC / radio frame                    | 2x2 bits                     |
|             | SS / radio frame                     | 2x2 bits                     |
|             | Puncturing Limit                     | 0.60                         |

## 6.11.5.4.1.28.2 Downlink

See clause 6.11.5.4.1.27.2.

## 6.11.5.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.11.5.4.1.29.1 Uplink

See clause 6.11.5.4.1.26.1.

## 6.11.5.4.1.29.2 Downlink

## 6.11.5.4.1.29.2.1 Transport channel parameters

## 6.11.5.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

See clause 6.10.3.4.1.29.2.1.1.

## 6.11.5.4.1.29.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.29.2.1.3 TFCS

See clause 6.10.3.4.1.29.2.1.3.

## 6.11.5.4.1.29.2.2 Physical channel parameters

| DPCH Downlink | Modulation                           | QPSK                           |
|---------------|--------------------------------------|--------------------------------|
|               | Codes and time slots / radio frame   | SF 16 x 9 codes x 4 time slots |
|               | Max. Number of data bits/radio frame | 3 144 bits                     |
|               | TFPI code word / radio frame         | 16 bits                        |
|               | TPC / radio frame                    | 2x2 bits                       |
|               | SS / radio frame                     | 2x2 bits                       |
|               | Puncturing Limit                     | 0.52                           |

## 6.11.5.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.11.5.4.1.30.1 Uplink

## 6.11.5.4.1.30.1.1 Transport channel parameters

## 6.11.5.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB

See clause 6.10.3.4.1.30.1.1.1.

## 6.11.5.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.30.1.1.3 TFCS

See clause 6.10.3.4.1.30.1.1.3.

## 6.11.5.4.1.30.1.2 Physical channel parameters

| DPCH Uplink | Modulation                           | QPSK                                                          | 8PSK                       |
|-------------|--------------------------------------|---------------------------------------------------------------|----------------------------|
|             | Codes and time slots / radio frame   | (SF1 x 1 code x 2 time slots) + (SF2 x 1 code x 2 time slots) | SF1 x 1code x 2 time slots |
|             | Max. Number of data bits/radio frame | 4 200 bits                                                    | 4 188 bits                 |
|             | TFPI code word / radio frame         | 16 bits                                                       | 24 bits                    |
|             | TPC / radio frame                    | 2x2 bits                                                      | 2x3 bits                   |
|             | SS / radio frame                     | 2x2 bits                                                      | 2x3 bits                   |
|             | Puncturing Limit                     | 0.72 (alt 0.64)                                               | 0.72 (alt 0.64)            |

## 6.11.5.4.1.30.2 Downlink

See clause 6.11.5.4.1.29.2.

## 6.11.5.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.11.5.4.1.31.1 Uplink

See clause 6.11.5.4.1.26.1.

## 6.11.5.4.1.31.2 Downlink

## 6.11.5.4.1.31.2.1 Transport channel parameters

## 6.11.5.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

## 6.11.5.4.1.31.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.31.2.1.3 TFCS

See clause 6.10.3.4.1.31.2.1.3.

## 6.11.5.4.1.31.2.2 Physical channel parameters

| DPCH Downlink | Modulation                           | QPSK                         |
|---------------|--------------------------------------|------------------------------|
|               | Codes and time slots / radio frame   | SF 1 x 1 code x 4 time slots |
|               | Max. Number of data bits/radio frame | 5 608 bits                   |
|               | TFCI code word / radio frame         | 16 bits                      |
|               | TPC / radio frame                    | 2x2 bits                     |
|               | SS / radio frame                     | 2x2 bits                     |
|               | Puncturing Limit                     | 0.56                         |

## 6.11.5.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.11.5.4.1.32.1 Uplink

See clause 6.11.5.4.1.26.1.

## 6.11.5.4.1.32.2 Downlink

## 6.11.5.4.1.32.2.1 Transport channel parameters

## 6.11.5.4.1.32.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

See clause 6.10.3.4.1.32.2.1.1.

## 6.11.5.4.1.32.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.32.2.1.3 TFCS

See clause 6.10.3.4.1.32.2.1.3.

## 6.11.5.4.1.32.2.2 Physical channel parameters

| DPCH Downlink | Modulation                           | QPSK                        | 8PSK                        |
|---------------|--------------------------------------|-----------------------------|-----------------------------|
|               | Codes and time slots / radio frame   | SF1 x 1 code x 6 time slots | SF1 x 1 code x 4 time slots |
|               | Max. Number of data bits/radio frame | 8 424 bits                  | 8 412 bits                  |
|               | TFCI code word / radio frame         | 16 bits                     | 24 bits                     |
|               | TPC / radio frame                    | 2x2 bits                    | 2x3 bits                    |

|  |                  |          |          |
|--|------------------|----------|----------|
|  | SS / radio frame | 2x2 bits | 2x3 bits |
|  | Puncturing Limit | 0.64     | 0.64     |

6.11.5.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.33.1 Uplink

See clause 6.11.5.4.1.28.1.

6.11.5.4.1.33.2 Downlink

See clause 6.11.5.4.1.32.2.

6.11.5.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.34.1 Uplink

6.11.5.4.1.34.1.1 Transport channel parameters

6.11.5.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.3.4.1.34.1.1.1.

6.11.5.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.34.1.1.3 TFCS

See clause 6.10.3.4.1.34.1.1.3.

6.11.5.4.1.34.1.2 Physical channel parameters

|             |                                      |                              |                              |
|-------------|--------------------------------------|------------------------------|------------------------------|
| DPCH Uplink | Modulation                           | QPSK                         | 8PSK                         |
|             | Codes and time slots / radio frame   | SF 1 x 1 code x 6 time slots | SF 1 x 1 code x 4 time slots |
|             | Max. Number of data bits/radio frame | 8 424 bits                   | 8 412 bits                   |
|             | TFCH code word / radio frame         | 16 bits                      | 24 bits                      |
|             | TPC / radio frame                    | 2x2 bits                     | 2x3 bits                     |
|             | SS / radio frame                     | 2x2 bits                     | 2x3 bits                     |
|             | Puncturing Limit                     | 0.64                         | 0.64                         |

6.11.5.4.1.34.2 Downlink

See clause 6.11.5.4.1.32.2.

6.11.5.4.1.35 Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.35.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.35.2 Downlink

6.11.5.4.1.35.2.1 Transport channel parameters

6.11.5.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

|              |                      |           |
|--------------|----------------------|-----------|
| Higher layer | RAB/Signalling RB    | RAB       |
| RLC          | Logical channel type | DTCH      |
|              | RLC mode             | AM        |
|              | Payload sizes, bit   | 1 704     |
|              | Max data rate, bps   | 2 048 000 |
|              | RLC header, bit      | 16        |

|                                                     |                                             |                       |                      |
|-----------------------------------------------------|---------------------------------------------|-----------------------|----------------------|
| MAC                                                 | MAC header, bit                             |                       | 0                    |
|                                                     | MAC multiplexing                            |                       | N/A                  |
| Layer 1                                             | TrCH type                                   |                       | DCH                  |
|                                                     | TB sizes, bit                               |                       | 1720                 |
|                                                     | TFS                                         | TF0, bits             | 0x1720               |
|                                                     |                                             | TF1, bits             | 1x1720               |
|                                                     |                                             | TF2, bits             | 2x1720               |
|                                                     |                                             | TF3, bits             | 4x1720               |
|                                                     |                                             | TF4, bits             | 8x1720               |
|                                                     |                                             | TF5, bits             | 12x1720              |
|                                                     |                                             | TF6, bits             | N/A (alt. 16x1720)   |
|                                                     |                                             | TF7, bits             | N/A (alt. 20x1720)   |
|                                                     |                                             | TF8, bits             | N/A (alt. 24x1720)   |
|                                                     | TTI, ms                                     |                       | 10 (alt. 20)         |
|                                                     | Coding type                                 |                       | No coding            |
|                                                     | CRC, bit                                    |                       | 24                   |
|                                                     | Max number of bits/TTI after channel coding |                       | 20 928 (alt. 41 856) |
| Max number of bits/radio frame before rate matching |                                             | 20 928 ( alt. 20 928) |                      |
| RM attribute                                        |                                             | 130 to 170            |                      |

#### 6.11.5.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.11.5.4.1.35.2.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12 (alt.18)                                                                                                                                                                                                                                                                                                                                                                                                             |
| TFCS      | (2 048 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1),<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),<br>(TF6, TF0), (TF7, TF0), (TF8, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1),<br>(TF6, TF1), (TF7, TF1), (TF8, TF1)) |

#### 6.11.5.4.1.35.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Modulation                           | 8PSK                         |
|               | Codes and time slots / radio frame   | SF1 x 1 code x 10 time slots |
|               | Max. Number of data bits/radio frame | 21 084 bits                  |
|               | TFCI code word / radio frame         | 24 bits                      |
|               | TPC / radio frame                    | 2x3 bits                     |
|               | SS / radio frame                     | 2x3 bits                     |
|               | Puncturing Limit                     | 1                            |

6.11.5.4.1.36 Void

6.11.5.4.1.37 Void

6.11.5.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38.1 Uplink

6.11.5.4.1.38.1.1 Transport channel parameters

6.11.5.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

## 6.11.5.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.38.1.1.4 TFCS

See clause 6.10.3.4.1.38.1.1.4.

## 6.11.5.4.1.38.1.2 Physical channel parameters

|             |                                      |                              |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation                           | QPSK                         |
|             | Codes and time slots / radio frame   | SF 2 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 1 384 bits                   |
|             | TFECI code word / radio frame        | 16 bits                      |
|             | TPC / radio frame                    | 2x2 bits                     |
|             | SS / radio frame                     | 2x2 bits                     |
|             | Puncturing Limit                     | 0.72 (alt 0.68)              |

## 6.11.5.4.1.38.2 Downlink

## 6.11.5.4.1.38.2.1 Transport channel parameters

## 6.11.5.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

## 6.11.5.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

## 6.11.5.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.38.2.1.4 TFCS

See clause 6.10.3.4.1.38.2.1.4.

## 6.11.5.4.1.38.2.2 Physical channel parameters

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                           | QPSK                          |
|               | Codes and time slots / radio frame   | SF16 x 3 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 504 bits                      |
|               | TFECI code word / radio frame        | 16 bits                       |
|               | TPC / radio frame                    | 2x2 bits                      |
|               | SS / radio frame                     | 2x2 bits                      |
|               | Puncturing Limit                     | 0.44                          |

## 6.11.5.4.1.38a Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.38a.1 Uplink

## 6.11.5.4.1.38a.1.1 Transport channel parameters

## 6.11.5.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

## 6.11.5.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.1.1.2.

## 6.11.5.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.38a.1.1.4 TFCS

See clause 6.10.3.4.1.38a.1.1.4.

## 6.11.5.4.1.38a.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / radio frame     | SF8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 0.48                        |

## 6.11.5.4.1.38a.2 Downlink

## 6.11.5.4.1.38a.2.1 Transport channel parameters

## 6.11.5.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

## 6.11.5.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.2.1.2.

## 6.11.5.4.1.38a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.38a.2.1.4 TFCS

See clause 6.10.3.4.1.38a.2.1.4.

## 6.11.5.4.1.38a.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 328 bits                      |
|               | TFCI code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.48                          |

## 6.11.2.5.1.38b Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.38b.1 Uplink

## 6.11.5.4.1.38b.1.1 Transport channel parameters

## 6.11.5.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

## 6.11.5.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

## 6.11.5.4.1.38b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.38b.1.1.4 TFCS

See clause 6.10.3.4.1.38b.1.1.4.

## 6.11.5.4.1.38b.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / frame           | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 0.64 (alt. 0.60)            |

## 6.11.5.4.1.38b.2 Downlink

## 6.11.5.4.1.38b.2.1 Transport channel parameters

## 6.11.5.4.1.38b.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

## 6.11.5.4.1.38b.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

## 6.11.5.4.1.38b.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.38b.2.1.4 TFCS

See clause 6.10.3.4.1.38b.2.1.4.

## 6.11.5.4.1.38b.2.2 Physical channel parameters

|               |                                        |                              |
|---------------|----------------------------------------|------------------------------|
| DPCH Downlink | Modulation                             | QPSK                         |
|               | Codes and time slots / radio frame     | SF16 x 4 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 680 bits                     |
|               | TFCI code word / radio frame           | 16 bits                      |
|               | TPC / radio frame                      | 2x2 bits                     |
|               | SS / radio frame                       | 2x2 bits                     |
|               | Puncturing Limit                       | 0.64                         |

## 6.11.5.4.1.38c Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.38c.1 Uplink

## 6.11.5.4.1.38c.1.1 Transport channel parameters

## 6.11.5.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

## 6.11.5.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.1.1.1.

## 6.11.5.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.38c.1.1.4 TFCS

See clause 6.10.3.4.1.38c.1.1.4.

## 6.11.5.4.1.38c.1.2 Physical channel parameters

|             |            |      |
|-------------|------------|------|
| DPCH Uplink | Modulation | QPSK |
|-------------|------------|------|



|  |                                        |                                                                      |
|--|----------------------------------------|----------------------------------------------------------------------|
|  | Codes and time slots / radio frame     | SF2 x 1 code x 2 time slots                                          |
|  | Max. Number of data bits / radio frame | 1 384 bits                                                           |
|  | TFCI code word / radio frame           | 16 bits                                                              |
|  | TPC / radio frame                      | 2x2 bits                                                             |
|  | SS / radio frame                       | 2x2 bits                                                             |
|  | Puncturing Limit                       | 0.72 (alt 0.64) for TFCS size=18<br>0.80 (alt 0.72) for TFCS size=17 |

#### 6.11.5.4.1.38c.2 Downlink

##### 6.11.5.4.1.38c.2.1 Transport channel parameters

###### 6.11.5.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

###### 6.11.5.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

###### 6.11.5.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.11.5.4.1.38c.2.1.4 TFCS

See clause 6.10.3.4.1.38c.2.1.4.

#### 6.11.5.4.1.38c.2.2 Physical channel parameters

|               |                                        |                              |
|---------------|----------------------------------------|------------------------------|
| DPCH Downlink | Modulation                             | QPSK                         |
|               | Codes and time slots / radio frame     | SF16 x 8 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 1 384 bits                   |
|               | TFCI code word / radio frame           | 16 bits                      |
|               | TPC / radio frame                      | 2x2 bits                     |
|               | SS / radio frame                       | 2x2 bits                     |
|               | Puncturing Limit                       | 0.72 (alt 0.64)              |

#### 6.11.5.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.5.4.1.38d.1 Uplink

##### 6.11.5.4.1.38d.1.1 Transport channel parameters

###### 6.11.5.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

###### 6.11.5.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.38d.1.1.2.

###### 6.11.5.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

##### 6.11.5.4.1.38d.1.1.4 TFCS

See clause 6.10.3.4.1.38d.1.1.4.

#### 6.11.5.4.1.38d.1.2 Physical channel parameters

|             |            |      |      |
|-------------|------------|------|------|
| DPCH Uplink | Modulation | QPSK | 8PSK |
|-------------|------------|------|------|

|  |                                      |                                                                  |                            |
|--|--------------------------------------|------------------------------------------------------------------|----------------------------|
|  | Codes and time slots / radio frame   | (SF1 x 1 code x 2 time slots) +<br>(SF2 x 1 code x 2 time slots) | SF1 x 1code x 2 time slots |
|  | Max. Number of data bits/radio frame | 4 200 bits                                                       | 4 188 bits                 |
|  | TFCI code word / radio frame         | 16 bits                                                          | 24 bits                    |
|  | TPC / radio frame                    | 2x2 bits                                                         | 2x3 bits                   |
|  | SS / radio frame                     | 2x2 bits                                                         | 2x3 bits                   |
|  | Puncturing Limit                     | 0.72 (alt 0.64)                                                  | 0.72 (alt 0.64)            |

#### 6.11.5.4.1.38d.2 Downlink

##### 6.11.5.4.1.38d.2.1 Transport channel parameters

###### 6.11.5.4.1.38d.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

###### 6.11.5.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.38d.2.1.2.

###### 6.11.5.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.11.5.4.1.38d.2.1.4 TFCS

See clause 6.10.3.4.1.38d.2.1.4.

#### 6.11.5.4.1.38d.2.2 Physical channel parameters

|               |                                      |                                |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation                           | QPSK                           |
|               | Codes and time slots / radio frame   | SF 16 x 9 codes x 4 time slots |
|               | Max. Number of data bits/radio frame | 3 144 bits                     |
|               | TFCI code word / radio frame         | 16 bits                        |
|               | TPC / radio frame                    | 2x2 bits                       |
|               | SS / radio frame                     | 2x2 bits                       |
|               | Puncturing Limit                     | 0.52                           |

#### 6.11.5.4.1.38e Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.5.4.1.38e.1 Uplink

##### 6.11.5.4.1.38e.1.1 Transport channel parameters

###### 6.11.5.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

###### 6.11.5.4.1.38e.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.1.1.2.

###### 6.11.5.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

##### 6.11.5.4.1.38e.1.1.4 TFCS

See clause 6.10.3.4.1.38e.1.1.4.

## 6.11.5.4.1.38e.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / radio frame     | SF8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 0.48                        |

## 6.11.5.4.1.38e.2 Downlink

## 6.11.5.4.1.38e.2.1 Transport channel parameters

## 6.11.5.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

## 6.11.5.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.2.1.2.

## 6.11.5.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.38e.2.1.4 TFCS

See clause 6.10.3.4.1.38e.2.1.4.

## 6.11.5.4.1.38e.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 328 bits                      |
|               | TFCI code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.48                          |

## 6.11.5.4.1.38f Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.38f.1 Uplink

## 6.11.5.4.1.38f.1.1 Transport channel parameters

## 6.11.5.4.1.38f.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

## 6.11.5.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

## 6.11.5.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.38f.1.1.4 TFCS

See clause 6.10.3.4.1.38f.1.1.4.

## 6.11.5.4.1.38f.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / frame           | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 0.64 (alt 0.60)             |

## 6.11.5.4.1.38f.2 Downlink

## 6.11.5.4.1.38f.2.1 Transport channel parameters

## 6.11.5.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

## 6.11.5.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

## 6.11.5.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.38f.2.1.4 TFCS

See clause 6.10.3.4.1.38f.2.1.4.

## 6.11.5.4.1.38f.2.2 Physical channel parameters

|               |                                        |                              |
|---------------|----------------------------------------|------------------------------|
| DPCH Downlink | Modulation                             | QPSK                         |
|               | Codes and time slots / radio frame     | SF16 x 4 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 680 bits                     |
|               | TFCI code word / radio frame           | 16 bits                      |
|               | TPC / radio frame                      | 2x2 bits                     |
|               | SS / radio frame                       | 2x2 bits                     |
|               | Puncturing Limit                       | 0.64                         |

## 6.11.5.4.1.38g Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.38g.1 Uplink

## 6.11.5.4.1.38g.1.1 Transport channel parameters

## 6.11.5.4.1.38g.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

## 6.11.5.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.1.1.1.

## 6.11.5.4.1.38g.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.38g.1.1.4 TFCS

See clause 6.10.3.4.1.38g.1.1.4.

## 6.11.5.4.1.38g.1.2 Physical channel parameters

|                                                            |                                        |                              |
|------------------------------------------------------------|----------------------------------------|------------------------------|
| DPCH Uplink                                                | Modulation                             | QPSK                         |
|                                                            | Codes and time slots / radio frame     | SF2 x 1 code x 2 time slots  |
|                                                            | Max. Number of data bits / radio frame | 1 368 bits (alt. 1 384 bits) |
|                                                            | TFCI code word / radio frame           | 32 bits (alt. 16 bits)       |
|                                                            | TPC / radio frame                      | 2x2 bits                     |
|                                                            | SS / radio frame                       | 2x2 bits                     |
|                                                            | Puncturing Limit                       | 0.96 (alt 1.0)               |
| NOTE: There are 32 bit and 16 bit TFCIs for the two cases. |                                        |                              |

## 6.11.5.4.1.38g.2 Downlink

## 6.11.5.4.1.38g.2.1 Transport channel parameters

## 6.11.5.4.1.38g.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

## 6.11.5.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.2.1.1.

## 6.11.5.4.1.38g.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.38g.2.1.4 TFCS

See clause 6.10.3.4.1.38g.2.1.4.

## 6.11.5.4.1.38g.2.2 Physical channel parameters

|               |                                        |                              |
|---------------|----------------------------------------|------------------------------|
| DPCH Downlink | Modulation                             | QPSK                         |
|               | Codes and time slots / radio frame     | SF16 x 8 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 1 368 bits                   |
|               | TFCI code word / radio frame           | 32 bits                      |
|               | TPC / radio frame                      | 2x2 bits                     |
|               | SS / radio frame                       | 2x2 bits                     |
|               | Puncturing Limit                       | 1.0                          |

## 6.11.5.4.1.38h Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.38h.1 Uplink

## 6.11.5.4.1.38h.1.1 Transport channel parameters

## 6.11.5.4.1.38h.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

## 6.11.5.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.1.1.1.

## 6.11.5.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.38h.1.1.4 TFCS

See clause 6.10.3.4.1.38h.1.1.4.

## 6.11.5.4.1.38h.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                           | QPSK                        |
|             | Codes and time slots / radio frame   | SF2 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 1 368 bits                  |
|             | TFCI code word / radio frame         | 32 bits                     |
|             | TPC / radio frame                    | 2x2 bits                    |
|             | SS / radio frame                     | 2x2 bits                    |
|             | Puncturing Limit                     | 0.72 (alt 0.64)             |

## 6.11.5.4.1.38h.2 Downlink

## 6.11.5.4.1.38h.2.1 Transport channel parameters

## 6.11.5.4.1.38h.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

## 6.11.5.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

## 6.11.5.4.1.38h.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.38h.2.1.4 TFCS

See clause 6.10.3.4.1.38h.2.1.4.

## 6.11.5.4.1.38h.2.2 Physical channel parameters

|               |                                        |                              |
|---------------|----------------------------------------|------------------------------|
| DPCH Downlink | Modulation                             | QPSK                         |
|               | Codes and time slots / radio frame     | SF16 x 8 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 1 368 bits                   |
|               | TFCI code word / radio frame           | 32 bits                      |
|               | TPC / radio frame                      | 2x2 bits                     |
|               | SS / radio frame                       | 2x2 bits                     |
|               | Puncturing Limit                       | 0.72                         |

## 6.11.5.4.1.38i Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.38i.1 Uplink

## 6.11.5.4.1.38i.1.1 Transport channel parameters

## 6.11.5.4.1.38i.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

## 6.11.5.4.1.38i.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

## 6.11.5.4.1.38i.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.38i.1.1.4 TFCS

See clause 6.10.3.4.1.38i.1.1.4.

## 6.11.5.4.1.38i.1.2 Physical channel parameters

| DPCH Uplink | Modulation                           | QPSK                                                          | 8PSK                       |
|-------------|--------------------------------------|---------------------------------------------------------------|----------------------------|
|             | Codes and time slots / radio frame   | (SF1 x 1 code x 2 time slots) + (SF2 x 1 code x 2 time slots) | SF1 x 1code x 2 time slots |
|             | Max. Number of data bits/radio frame | 4 184 bits                                                    | 4 164 bits                 |
|             | TFCI code word / radio frame         | 32 bits                                                       | 48 bits                    |
|             | TPC / radio frame                    | 2x2 bits                                                      | 2x3 bits                   |
|             | SS / radio frame                     | 2x2 bits                                                      | 2x3 bits                   |
|             | Puncturing Limit                     | 1                                                             | 1                          |

## 6.11.5.4.1.38i.2 Downlink

## 6.11.5.4.1.38i.2.1 Transport channel parameters

## 6.11.5.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

## 6.11.5.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

## 6.11.5.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.38i.2.1.4 TFCS

See clause 6.10.3.4.1.38i.2.1.4.

## 6.11.5.4.1.38i.2.2 Physical channel parameters

| DPCH Downlink | Modulation                           | QPSK                           |
|---------------|--------------------------------------|--------------------------------|
|               | Codes and time slots / radio frame   | SF 16 x 9 codes x 4 time slots |
|               | Max. Number of data bits/radio frame | 3 128 bits                     |
|               | TFCI code word / radio frame         | 32 bits                        |
|               | TPC / radio frame                    | 2x2 bits                       |
|               | SS / radio frame                     | 2x2 bits                       |
|               | Puncturing Limit                     | 1                              |

## 6.11.5.4.1.38j Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.38j.1 Uplink

See clause 6.11.5.4.1.38i.1.

## 6.11.5.4.1.38j.2 Downlink

## 6.11.5.4.1.38j.2.1 Transport channel parameters

## 6.11.5.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

## 6.11.5.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

## 6.11.5.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.38j.2.1.4 TFCS

See clause 6.10.3.4.1.38j.2.1.4.

## 6.11.5.4.1.38j.2.2 Physical channel parameters

|               |                                      |                                |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation                           | QPSK                           |
|               | Codes and time slots / radio frame   | SF 16 x 9 codes x 4 time slots |
|               | Max. Number of data bits/radio frame | 3 128 bits                     |
|               | TFCI code word / radio frame         | 32 bits                        |
|               | TPC / radio frame                    | 2x2 bits                       |
|               | SS / radio frame                     | 2x2 bits                       |
|               | Puncturing Limit                     | 0.60                           |

6.11.5.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.11.5.4.1.39.1 Uplink

See clause 6.11.5.4.1.38.1.

## 6.11.5.4.1.39.2 Downlink

## 6.11.5.4.1.39.2.1 Transport channel parameters

6.11.5.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.39.2.1.4 TFCS

See clause 6.10.3.4.1.39.2.1.4.

## 6.11.5.4.1.39.2.2 Physical channel parameters

|               |                                      |                                 |
|---------------|--------------------------------------|---------------------------------|
| DPCH Downlink | Modulation                           | QPSK                            |
|               | Codes and time slots / radio frame   | SF 16 x 10 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 1 736 bits                      |
|               | TFCI code word / radio frame         | 16 bits                         |
|               | TPC / radio frame                    | 2x2 bits                        |
|               | SS / radio frame                     | 2x2 bits                        |
|               | Puncturing Limit                     | 0.56                            |

6.11.5.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.11.5.4.1.40.1 Uplink

## 6.11.5.4.1.40.1.1 Transport channel parameters

See clause 6.10.3.4.1.40.1.1.

## 6.11.5.4.1.40.1.2 Physical channel parameters

## 6.11.5.4.1.40.1.2.1 Physical channel parameters (one CCTrCH case)

|             |                                    |                             |
|-------------|------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                         | QPSK                        |
|             | Codes and time slots / radio frame | SF1 x 1 code x 2 time slots |



|  |                                      |                  |
|--|--------------------------------------|------------------|
|  | Max. Number of data bits/radio frame | 2 792 bits       |
|  | TFCI code word / radio frame         | 16 bits          |
|  | TPC / radio frame                    | 2x2 bits         |
|  | SS / radio frame                     | 2x2 bits         |
|  | Puncturing Limit                     | 0.92 (alt. 0.84) |

#### 6.11.5.4.1.40.1.2.2 Physical channel parameters (two CCTrCH case)

##### 6.11.5.4.1.40.1.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.1.2.

##### 6.11.5.4.1.40.1.2.2.2 Physical channel parameters (Interactive or background)

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                           | QPSK                        |
|             | Codes and time slots / radio frame   | SF2 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 1 384 bits                  |
|             | TFCI code word / radio frame         | 16 bits                     |
|             | TPC / radio frame                    | 2x2 bits                    |
|             | SS / radio frame                     | 2x2 bits                    |
|             | Puncturing Limit                     | 0.64 (alt. 0.56)            |

#### 6.11.5.4.1.40.2 Downlink

##### 6.11.5.4.1.40.2.1 Transport channel parameters

See clause 6.10.3.4.1.40.2.1.

##### 6.11.5.4.1.40.2.2 Physical channel parameters

##### 6.11.5.4.1.40.2.2.1 Physical channel parameters (one CCTrCH)

See clause 6.11.5.4.1.39.2.2.

##### 6.11.5.4.1.40.2.2.2 Physical channel parameters (two CCTrCHs)

##### 6.11.5.4.1.40.2.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.2.2.

##### 6.11.5.4.1.40.2.2.2.2 Physical channel parameters (Interactive or background)

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                           | QPSK                          |
|               | Codes and time slots / radio frame   | SF16 x 8 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 1 384 bits                    |
|               | TFCI code word / radio frame         | 16 bits                       |
|               | TPC / radio frame                    | 2x2 bits                      |
|               | SS / radio frame                     | 2x2 bits                      |
|               | Puncturing Limit                     | 0.64                          |

#### 6.11.5.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.5.4.1.41.1 Uplink

See clause 6.11.5.4.1.40.1.

##### 6.11.5.4.1.41.2 Downlink

##### 6.11.5.4.1.41.2.1 Transport channel parameters

See clause 6.10.3.4.1.41.2.1.

##### 6.11.5.4.1.41.2.2 Physical channel parameters

## 6.11.5.4.1.41.2.2.1 Physical channel parameters (one CCTrCH case)

| DPCCH Downlink | Modulation                           | QPSK                           | 8PSK                            |
|----------------|--------------------------------------|--------------------------------|---------------------------------|
|                | Codes and time slots / radio frame   | SF 16 x 9 codes x 4 time slots | SF 16 x 12 codes x 2 time slots |
|                | Max. Number of data bits/radio frame | 3 144 bits                     | 3 132 bits                      |
|                | TFCI code word / radio frame         | 16 bits                        | 24 bits                         |
|                | TPC / radio frame                    | 2x2 bits                       | 2x3 bits                        |
|                | SS / radio frame                     | 2x2 bits                       | 2x3 bits                        |
|                | Puncturing Limit                     | 0.60                           | 0.60                            |

## 6.11.5.4.1.41.2.2.2 Physical channel parameters (two CCTrCHs)

## 6.11.5.4.1.41.2.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.2.2.

## 6.11.5.4.1.41.2.2.2.2 Physical channel parameters (Interactive or background)

| DPCCH Downlink | Modulation                           | QPSK                         | 8PSK                            |
|----------------|--------------------------------------|------------------------------|---------------------------------|
|                | Codes and time slots / radio frame   | SF 1 x 1 code x 2 time slots | SF 16 x 11 codes x 2 time slots |
|                | Max. Number of data bits/radio frame | 2 792 bits                   | 2868 bits                       |
|                | TFCI code word / radio frame         | 16 bits                      | 24 bits                         |
|                | TPC / radio frame                    | 2x2 bits                     | 2x3 bits                        |
|                | SS / radio frame                     | 2x2 bits                     | 2x3 bits                        |
|                | Puncturing Limit                     | 0.64                         | 0.64                            |

## 6.11.5.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.42.1 Uplink

## 6.11.5.4.1.42.1.1 Transport channel parameters

See clause 6.10.3.4.1.42.1.1.

## 6.11.5.4.1.42.1.2 Physical channel parameters

See clause 6.10.3.4.1.40.1.2.1.

## 6.11.5.4.1.42.2 Downlink

## 6.11.5.4.1.42.2.1 Transport channel parameters

## 6.11.5.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

## 6.11.5.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

## 6.11.5.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.42.2.1.4 TFCS

See clause 6.10.3.4.1.42.2.1.4.

## 6.11.5.4.1.42.2.2 Physical channel parameters

| DPCCH Downlink | Modulation                           | QPSK                        | 8PSK                        |
|----------------|--------------------------------------|-----------------------------|-----------------------------|
|                | Codes and time slots / radio frame   | SF1 x 1 code x 6 time slots | SF1 x 1 code x 4 time slots |
|                | Max. Number of data bits/radio frame | 8 408 bits                  | 8 388 bits                  |
|                | TFCI code word / radio frame         | 32 bits                     | 48 bits                     |
|                | TPC / radio frame                    | 2x2 bits                    | 2x3 bits                    |

|  |                  |          |          |
|--|------------------|----------|----------|
|  | SS / radio frame | 2x2 bits | 2x3 bits |
|  | Puncturing Limit | 0.80     | 0.80     |

6.11.5.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.43.1 Uplink

See clause 6.11.5.4.1.40.1.

6.11.5.4.1.43.2 Downlink

6.11.5.4.1.43.2.1 Transport channel parameters

See clause 6.10.3.4.1.43.2.1.

6.11.5.4.1.43.2.2 Physical channel parameters

6.11.5.4.1.43.2.2.1 Physical channel parameters (one CCTrCH)

|               |                                      |                              |                              |
|---------------|--------------------------------------|------------------------------|------------------------------|
| DPCH Downlink | Modulation                           | QPSK                         | 8PSK                         |
|               | Codes and time slots / radio frame   | SF 1 x 1 code x 6 time slots | SF 1 x 1 code x 4 time slots |
|               | Max. Number of data bits/radio frame | 8 408 bits                   | 8 388 bits                   |
|               | TFCI code word / radio frame         | 32 bits                      | 48 bits                      |
|               | TPC / radio frame                    | 2x2 bits                     | 2x3 bits                     |
|               | SS / radio frame                     | 2x2 bits                     | 2x3 bits                     |
|               | Puncturing Limit                     | 0.60                         | 0.60                         |

6.11.5.4.1.43.2.2.2 Physical channel parameters (two CCTrCHs)

6.11.5.4.1.43.2.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.2.2.

6.11.5.4.1.43.2.2.2.2 Physical channel parameters (Interactive or background)

|               |                                      |                                                                       |                              |
|---------------|--------------------------------------|-----------------------------------------------------------------------|------------------------------|
| DPCH Downlink | Modulation                           | QPSK                                                                  | 8PSK                         |
|               | Codes and time slots / radio frame   | (SF 1 x 1 code x 4 time slots) +<br>(SF 16 x 10 codes x 2 time slots) | SF 1 x 1 code x 4 time slots |
|               | Max. Number of data bits/radio frame | 7 368 bits                                                            | 8 412 bits                   |
|               | TFCI code word / radio frame         | 16 bits                                                               | 24 bits                      |
|               | TPC / radio frame                    | 2x2 bits                                                              | 2x3 bits                     |
|               | SS / radio frame                     | 2x2 bits                                                              | 2x3 bits                     |
|               | Puncturing Limit                     | 0.56                                                                  | 0.64                         |

6.11.5.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.44.1 Uplink

6.11.5.4.1.44.1.1 Transport channel parameters

6.11.5.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.44.1.1.4 TFCS

See clause 6.10.3.4.1.44.1.1.4.

#### 6.11.5.4.1.44.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                           | 8PSK                        |
|             | Codes and time slots / radio frame   | SF1 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 4 188 bits                  |
|             | TFCl code word / radio frame         | 24 bits                     |
|             | TPC / radio frame                    | 2x3 bits                    |
|             | SS / radio frame                     | 2x3 bits                    |
|             | Puncturing Limit                     | 0.80 (alt 0.72)             |

#### 6.11.5.4.1.44.2 Downlink

##### 6.11.5.4.1.44.2.1 Transport channel parameters

##### 6.11.5.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

##### 6.11.5.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

See clause 6.11.5.4.1.35.2.1.1.

##### 6.11.5.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.11.5.4.1.44.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 32 (alt. 50)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| TFCS      | <p>(RAB subflow#1, RAB subflow#2, RAB subflow#3, 2 048 kbps RAB , DCCH)=</p> <p>((TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0), (TF0, TF0, TF0, TF8, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1), (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1), (TF0, TF0, TF0, TF8, TF1))</p> |

For better understanding of the TFCS please note that the following combinations are not included in the table above:

- (TF2, TF1, TF1, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF2, TF1, TF1, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1).

#### 6.11.5.4.1.44.2.2 Physical channel parameters

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                           | 8PSK                          |
|               | Codes and time slots / radio frame   | SF 1 x 1 code x 10 time slots |
|               | Max. Number of data bits/radio frame | 21 060 bits                   |
|               | TFCI code word / radio frame         | 48 bits                       |
|               | TPC / radio frame                    | 2x3 bits                      |
|               | SS / radio frame                     | 2x3 bits                      |
|               | Puncturing Limit                     | 1                             |

6.11.5.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.11.5.4.1.45.1 Uplink

##### 6.11.5.4.1.45.1.1 Transport channel parameters

6.11.5.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

See clause 6.10.3.4.1.17.1.1.1.

6.11.5.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

##### 6.11.5.4.1.45.1.1.4 TFCS

See clause 6.10.3.4.1.45.1.1.4.

#### 6.11.5.4.1.45.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                           | QPSK                        |
|             | Codes and time slots / radio frame   | SF2 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 1 384 bits                  |
|             | TFCI code word / radio frame         | 16 bits                     |
|             | TPC / radio frame                    | 2x2 bits                    |
|             | SS / radio frame                     | 2x2 bits                    |
|             | Puncturing Limit                     | 0.52                        |

#### 6.11.5.4.1.45.2 Downlink

##### 6.11.5.4.1.45.2.1 Transport channel parameters

6.11.5.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

See clause 6.10.3.4.1.17.2.1.1.

6.11.5.4.1.45.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.11.5.4.1.45.2.1.4 TFCS

See clause 6.10.3.4.1.45.2.1.4.

## 6.11.5.4.1.45.2.2 Physical channel parameters

|               |                                      |                                |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation                           | QPSK                           |
|               | Codes and time slots / radio frame   | SF 16 x 9 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 1 560 bits                     |
|               | TFCI code word / radio frame         | 16 bits                        |
|               | TPC / radio frame                    | 2x2 bits                       |
|               | SS / radio frame                     | 2x2 bits                       |
|               | Puncturing Limit                     | 0.56                           |

6.11.5.4.1.46 Void

6.11.5.4.1.47 Void

6.11.5.4.1.48 Void

6.11.5.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.49.1 Uplink

6.11.5.4.1.49.1.1 Transport channel parameters

6.11.5.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.49.1.1.4 TFCS

See clause 6.10.3.4.1.49.1.1.4.

6.11.5.4.1.49.1.2 Physical channel parameters

|             |                                      |                              |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation                           | QPSK                         |
|             | Codes and time slots / radio frame   | SF 1 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 2 792 bits                   |
|             | TFCI code word / radio frame         | 16 bits                      |
|             | TPC / radio frame                    | 2x2 bits                     |
|             | SS / radio frame                     | 2x2 bits                     |
|             | Puncturing Limit                     | 0.88                         |

6.11.5.4.1.49.2 Downlink

6.11.5.4.1.49.2.1 Transport channel parameters

6.11.5.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.49.2.1.4 TFCS

See clause 6.10.3.4.1.49.2.1.4.

#### 6.11.5.4.1.49.2.2 Physical channel parameters

|               |                                      |                                |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation                           | QPSK                           |
|               | Codes and time slots / radio frame   | SF16 x 11 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 1 912 bits                     |
|               | TFCI code word / radio frame         | 16 bits                        |
|               | TPC / radio frame                    | 2x2 bits                       |
|               | SS / radio frame                     | 2x2 bits                       |
|               | Puncturing Limit                     | 0.60                           |

6.11.5.4.1.49a Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL: 12.2 7.95 5.9 4.75 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.49a.1 Uplink

6.11.5.4.1.49a.1.1 Transport channel parameters

6.11.5.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.49a.1.1.4 TFCS

See clause 6.10.3.4.1.49a.1.1.4.

#### 6.11.5.4.1.49a.1.2 Physical channel parameters

|             |                                      |                              |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation                           | QPSK                         |
|             | Codes and time slots / radio frame   | SF 1 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 2 792 bits                   |
|             | TFCI code word / radio frame         | 16 bits                      |
|             | TPC / radio frame                    | 2x2 bits                     |
|             | SS / radio frame                     | 2x2 bits                     |
|             | Puncturing Limit                     | 0.88                         |

6.11.5.4.1.49a.2 Downlink

6.11.5.4.1.49a.2.1 Transport channel parameters

6.11.5.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: 12.2 7.95 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.49.2.1.4 TFCS

See clause 6.10.3.4.1.49a.2.1.4.

#### 6.11.5.4.1.49a.2.2 Physical channel parameters

|               |                                      |                                |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation                           | QPSK                           |
|               | Codes and time slots / radio frame   | SF16 x 11 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 1 912 bits                     |
|               | TFPI code word / radio frame         | 16 bits                        |
|               | TPC / radio frame                    | 2x2 bits                       |
|               | SS / radio frame                     | 2x2 bits                       |
|               | Puncturing Limit                     | 0.60                           |

6.11.5.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.11.5.4.1.50.1 Uplink

##### 6.11.5.4.1.50.1.1 Transport channel parameters

6.11.5.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

##### 6.11.5.4.1.50.1.1.3 TFCS

See clause 6.10.3.4.1.50.1.1.3.

#### 6.11.5.4.1.50.1.2 Physical channel parameters

|             |                                      |                              |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation                           | QPSK                         |
|             | Codes and time slots / radio frame   | SF 1 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 2 792 bits                   |
|             | TFPI code word / radio frame         | 16 bits                      |
|             | TPC / radio frame                    | 2x2 bits                     |
|             | SS / radio frame                     | 2x2 bits                     |
|             | Puncturing Limit                     | 0.52                         |

#### 6.11.5.4.1.50.2 Downlink

##### 6.11.5.4.1.50.2.1 Transport channel parameters

6.11.5.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.11.5.4.1.50.2.1.3 TFCS

See clause 6.10.3.4.1.50.2.1.3.

#### 6.11.5.4.1.50.2.2 Physical channel parameters

|               |                                      |                                 |
|---------------|--------------------------------------|---------------------------------|
| DPCH Downlink | Modulation                           | QPSK                            |
|               | Codes and time slots / radio frame   | SF 16 x 15 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 2 616 bits                      |
|               | TFPI code word / radio frame         | 16 bits                         |
|               | TPC / radio frame                    | 2x2 bits                        |
|               | SS / radio frame                     | 2x2 bits                        |
|               | Puncturing Limit                     | 0.48                            |



6.11.5.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.51.1 Uplink

6.11.5.4.1.51.1.1 Transport channel parameters

6.11.5.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

6.11.5.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.51.1.1.4 TFCS

See clause 6.10.3.4.1.51.1.1.4.

6.11.5.4.1.51.1.2 Physical channel parameters

|             |                                      |                              |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation                           | QPSK                         |
|             | Codes and time slots / radio frame   | SF 1 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 2 792 bits                   |
|             | TFCI code word / radio frame         | 16 bits                      |
|             | TPC / radio frame                    | 2x2 bits                     |
|             | SS / radio frame                     | 2x2 bits                     |
|             | Puncturing Limit                     | 0.52 (alt. 0.48)             |

6.11.5.4.1.51.2 Downlink

6.11.5.4.1.51.2.1 Transport channel parameters

6.11.5.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.51.2.1.4 TFCS

See clause 6.10.3.4.1.51.2.1.4.

6.11.5.4.1.51.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Modulation                           | QPSK                        |
|               | Codes and time slots / radio frame   | SF1 x 1 code x 2 time slots |
|               | Max. Number of data bits/radio frame | 2 792 bits                  |
|               | TFCI code word / radio frame         | 16 bits                     |
|               | TPC / radio frame                    | 2x2 bits                    |
|               | SS / radio frame                     | 2x2 bits                    |
|               | Puncturing Limit                     | 0.52                        |

6.11.5.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.51a.1 Uplink

6.11.5.4.1.51a.1.1 Transport channel parameters

6.11.5.4.1.51a.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.51a.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.51a.1.1.4 TFCS

See clause 6.10.3.4.1.51a.1.1.4.

6.11.5.4.1.51a.1.2 Physical channel parameters

| DPCH Uplink                          | Physical 1                  | Physical 2                  |
|--------------------------------------|-----------------------------|-----------------------------|
| Modulation                           | QPSK                        | QPSK                        |
| Codes and time slots / radio frame   | SF2 x 1 code x 2 time slots | SF1 x 1 code x 2 time slots |
| Max. Number of data bits/radio frame | 1 384 bits                  | 2 792 bits                  |
| TFCH code word / radio frame         | 16 bits                     | 16 bits                     |
| TPC / radio frame                    | 2x2 bits                    | 2x2 bits                    |
| SS / radio frame                     | 2x2 bits                    | 2x2 bits                    |
| Puncturing Limit                     | 0.40                        | 0.84                        |

6.11.5.4.1.51a.2 Downlink

6.11.5.4.1.51a.2.1 Transport channel parameters

6.11.5.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.51a.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.51a.2.1.4 TFCS

See clause 6.10.3.4.1.51.2.1.4.

6.11.5.4.1.51a.2.2 Physical channel parameters

| DPCH Downlink                        | QPSK                        |
|--------------------------------------|-----------------------------|
| Modulation                           | QPSK                        |
| Codes and time slots / radio frame   | SF1 x 1 code x 2 time slots |
| Max. Number of data bits/radio frame | 2 792 bits                  |
| TFCH code word / radio frame         | 16 bits                     |
| TPC / radio frame                    | 2x2 bits                    |
| SS / radio frame                     | 2x2 bits                    |
| Puncturing Limit                     | 0.84                        |

6.11.5.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.51b.1 Uplink

## 6.11.5.4.1.51b.1.1 Transport channel parameters

## 6.11.5.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

## 6.11.5.4.1.51b.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.1.1.1.

## 6.11.5.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.51b.1.1.4 TFCS

See clause 6.10.3.4.1.51b.1.1.4.

## 6.11.5.4.1.51b.1.2 Physical channel parameters

| DPCCH Uplink                         |  | Physical 1                  | Physical 2                  |
|--------------------------------------|--|-----------------------------|-----------------------------|
| Modulation                           |  | QPSK                        | QPSK                        |
| Codes and time slots / radio frame   |  | SF2 x 1 code x 2 time slots | SF1 x 1 code x 2 time slots |
| Max. Number of data bits/radio frame |  | 1 384 bits                  | 2 792 bits                  |
| TFCH code word / radio frame         |  | 16 bits                     | 16 bits                     |
| TPC / radio frame                    |  | 2x2 bits                    | 2x2 bits                    |
| SS / radio frame                     |  | 2x2 bits                    | 2x2 bits                    |
| Puncturing Limit                     |  | 0.40                        | 0.76                        |

## 6.11.5.4.1.51b.2 Downlink

See clause 6.11.5.4.1.51.2.

## 6.11.5.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.52.1 Uplink

See clause 6.11.5.4.1.51.1.

## 6.11.5.4.1.52.2 Downlink

## 6.11.5.4.1.52.2.1 Transport channel parameters

## 6.11.5.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

## 6.11.5.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

## 6.11.5.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.52.2.1.4 TFCS

See clause 6.10.3.4.1.52.2.1.4.

## 6.11.5.4.1.52.2.2 Physical channel parameters

|               |                                      |                                 |
|---------------|--------------------------------------|---------------------------------|
| DPCH Downlink | Modulation                           | QPSK                            |
|               | Codes and time slots / radio frame   | SF 16 x 12 codes x 4 time slots |
|               | Max. Number of data bits/radio frame | 4 200 bits                      |
|               | TFCI code word / radio frame         | 16 bits                         |
|               | TPC / radio frame                    | 2x2 bits                        |
|               | SS / radio frame                     | 2x2 bits                        |
|               | Puncturing Limit                     | 0.52                            |

6.11.5.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.53.1 Uplink

6.11.5.4.1.53.1.1 Transport channel parameters

6.11.5.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.53.1.1.4 TFCS

See clause 6.10.3.4.1.53.1.1.4.

6.11.5.4.1.53.1.2 Physical channel parameters

|             |                                      |                             |                            |
|-------------|--------------------------------------|-----------------------------|----------------------------|
| DPCH Uplink | Modulation                           | QPSK                        | 8PSK                       |
|             | Codes and time slots / radio frame   | SF1 x 1 code x 4 time slots | SF1 x 1code x 2 time slots |
|             | Max. Number of data bits/radio frame | 5 608 bits                  | 4 188 bits                 |
|             | TFCI code word / radio frame         | 16 bits                     | 24 bits                    |
|             | TPC / radio frame                    | 2x2 bits                    | 2x3 bits                   |
|             | SS / radio frame                     | 2x2 bits                    | 2x3 bits                   |
|             | Puncturing Limit                     | 0.72 (alt 0.68)             | 0.52 (alt 0.48)            |

6.11.5.4.1.53.2 Downlink

See clause 6.11.5.4.1.52.2.

6.11.5.4.1.54 Void

6.11.5.4.1.55 Void

6.11.5.4.1.56 Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.56.1 Uplink

6.11.5.4.1.56.1.1 Transport channel parameters

6.11.5.4.1.56.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB + UL:8 kbps / PS RAB

See clause 6.10.3.4.1.56.1.1.1.

6.11.5.4.1.56.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.56.1.1.3 TFCS

See clause 6.10.3.4.1.56.1.1.3.

## 6.11.5.4.1.56.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / radio frame     | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 0.84 (alt 0.76)             |

## 6.11.5.4.1.56.2 Downlink

## 6.11.5.4.1.56.2.1 Transport channel parameters

## 6.11.5.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

See clause 6.10.3.4.1.56.2.1.1.

## 6.11.5.4.1.56.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.56.2.1.3 TFCS

See clause 6.10.3.4.1.56.2.1.3.

## 6.11.5.4.1.56.2.2 Physical channel parameters

|               |                                        |                              |
|---------------|----------------------------------------|------------------------------|
| DPCH Downlink | Modulation                             | QPSK                         |
|               | Codes and time slots / radio frame     | SF16 x 4 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 680 bits                     |
|               | TFCI code word / radio frame           | 16 bits                      |
|               | TPC / radio frame                      | 2x2 bits                     |
|               | SS / radio frame                       | 2x2 bits                     |
|               | Puncturing Limit                       | 0.84                         |

## 6.11.5.4.1.57 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.57.1 Uplink

## 6.11.5.4.1.57.1.1 Transport channel parameters

## 6.11.5.4.1.57.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

See clause 6.10.3.4.1.38d.1.1.2.

## 6.11.5.4.1.57.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.57.1.1.3 TFCS

See clause 6.11.5.4.1.57.1.1.3.

## 6.11.5.4.1.57.1.2 Physical channel parameters

|             |                                    |                             |
|-------------|------------------------------------|-----------------------------|
| DPCH Uplink |                                    | Physical 1                  |
|             | Modulation                         | QPSK                        |
|             | Codes and time slots / radio frame | SF1 x 1 code x 2 time slots |

|  |                                      |                  |
|--|--------------------------------------|------------------|
|  | Max. Number of data bits/radio frame | 2 792 bits       |
|  | TFCI code word / radio frame         | 16 bits          |
|  | TPC / radio frame                    | 2x2 bits         |
|  | SS / radio frame                     | 2x2 bits         |
|  | Puncturing Limit                     | 0.52 (alt. 0.44) |

#### 6.11.5.4.1.57.2 Downlink

##### 6.11.5.4.1.57.2.1 Transport channel parameters

##### 6.11.5.4.1.57.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

See clause 6.10.3.4.1.57.2.1.1.

##### 6.11.5.4.1.57.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.11.5.4.1.57.2.1.3 TFCS

See clause 6.10.3.4.1.57.2.1.3.

##### 6.11.5.4.1.57.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Modulation                           | QPSK                        |
|               | Codes and time slots / radio frame   | SF1 x 1 code x 2 time slots |
|               | Max. Number of data bits/radio frame | 2 792 bits                  |
|               | TFCI code word / radio frame         | 16 bits                     |
|               | TPC / radio frame                    | 2x2 bits                    |
|               | SS / radio frame                     | 2x2 bits                    |
|               | Puncturing Limit                     | 0.52                        |

#### 6.11.5.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.5.4.1.58.1 Uplink

##### 6.11.5.4.1.58.1.1 Transport channel parameters

##### 6.11.5.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.58.1.1.1.

##### 6.11.5.4.1.58.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

##### 6.11.5.4.1.58.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

##### 6.11.5.4.1.58.1.1.4 TFCS

See clause 6.10.3.4.1.58.1.1.4.

##### 6.11.5.4.1.58.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / frame           | SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                    |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 0.60 (alt 0.56)             |

## 6.11.5.4.1.58.2 Downlink

## 6.11.5.4.1.58.2.1 Transport channel parameters

## 6.11.5.4.1.58.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.58.2.1.1.

## 6.10.5.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

## 6.11.5.4.1.58.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.58.2.1.4 TFCS

See clause 6.10.3.4.1.58.2.1.4.

## 6.11.5.4.1.58.2.2 Physical channel parameters

|               |                                        |                              |
|---------------|----------------------------------------|------------------------------|
| DPCH Downlink | Modulation                             | QPSK                         |
|               | Codes and time slots / radio frame     | SF16 x 8 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 1 384 bits                   |
|               | TFCI code word / radio frame           | 16 bits                      |
|               | TPC / radio frame                      | 2x2 bits                     |
|               | SS / radio frame                       | 2x2 bits                     |
|               | Puncturing Limit                       | 0.44                         |

## 6.11.5.4.1.59 Reserved for future use

## 6.11.5.4.1.60 Reserved for future use

## 6.11.5.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.61.1 Uplink

## 6.11.5.4.1.61.1.1 Transport channel parameters

## 6.11.5.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.61.1.1.1.

## 6.10.5.4.1.61.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

## 6.11.5.4.1.61.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.61.1.1.4 TFCS

See clause 6.10.3.4.1.61.1.1.4.

## 6.11.5.4.1.61.2 Physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 680 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 0.84 (alt 0.80)              |

## 6.11.5.4.1.61.2 Downlink

## 6.11.5.4.1.61.2.1 Transport channel parameters

## 6.11.5.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.61.2.1.1.

## 6.11.5.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

## 6.11.5.4.1.61.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.61.2.1.4 TFCS

See clause 6.10.3.4.1.61.2.1.4.

## 6.11.5.4.1.61.2.2 Physical channel parameters

|               |                                        |                               |
|---------------|----------------------------------------|-------------------------------|
| DPCH Downlink | Modulation                             | QPSK                          |
|               | Codes and time slots / radio frame     | SF 16 x 4 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 680 bits                      |
|               | TFCI code word / radio frame           | 16 bits                       |
|               | TPC / radio frame                      | 2x2 bits                      |
|               | SS / radio frame                       | 2x2 bits                      |
|               | Puncturing Limit                       | 0.84                          |

## 6.11.5.4.1.62 Interactive or background / UL:256 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.62.1 Uplink

## 6.11.5.4.1.62.1.1 Transport channel parameters

## 6.11.5.4.1.62.1.1.1 Transport channel parameters for Interactive or background / UL:256 kbps / PS RAB

|              |                                                     |           |                     |
|--------------|-----------------------------------------------------|-----------|---------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                 |
| RLC          | Logical channel type                                |           | DTCH                |
|              | RLC mode                                            |           | AM                  |
|              | Payload sizes, bit                                  |           | 320                 |
|              | Max data rate, bps                                  |           | 256 000             |
|              | AMD PDU header, bit                                 |           | 16                  |
| MAC          | MAC header, bit                                     |           | 0                   |
|              | MAC multiplexing                                    |           | N/A                 |
| Layer 1      | TrCH type                                           |           | DCH                 |
|              | TB sizes, bit                                       |           | 336                 |
|              | TFS                                                 | TF0, bits | 0x336               |
|              |                                                     | TF1, bits | 1x336               |
|              |                                                     | TF2, bits | 2x336               |
|              |                                                     | TF3, bits | 4x336               |
|              |                                                     | TF4, bits | 8x336               |
|              |                                                     | TF5, bits | N/A (alt. 12x336)   |
|              |                                                     | TF6, bits | N/A (alt. 16x336)   |
|              | TTI, ms                                             |           | 10(alt. 20)         |
|              | Coding type                                         |           | TC                  |
|              | CRC, bit                                            |           | 16                  |
|              | Max number of bits/TTI after channel coding         |           | 8 460 (alt. 16 920) |
|              | Max number of bits/radio frame before rate matching |           | 8 460 (alt. 8 460)  |
|              | RM attribute                                        |           | 135 to 175          |



## 6.11.5.4.1.62.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.1.62.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 10 (alt.14)                                                                                                                                                                                                                                                                                                                           |
| TFCS                                                                                                                     | (256 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                       |

## 6.11.5.4.1.62.1.2 Physical channel parameters

|             |                                      |                              |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation                           | QPSK                         |
|             | Codes and time slots / radio frame   | SF 1 x 1 code x 4 time slots |
|             | Max. Number of data bits/radio frame | 5 608 bits                   |
|             | TFCI code word / radio frame         | 16 bits                      |
|             | TPC / radio frame                    | 2x2 bits                     |
|             | SS / radio frame                     | 2x2 bits                     |
|             | Puncturing Limit                     | 0.56                         |

## 6.11.5.4.1.62.2 Downlink

See clause 6.11.5.4.1.25.2.

## 6.11.5.4.1.63 Streaming / unknown / UL:16 DL:32 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.1.63.1 Uplink

See clause 6.11.5.4.1.58.1.

## 6.11.5.4.1.63.2 Downlink

## 6.11.5.4.1.63.2.1 Transport channel parameters

## 6.11.5.4.1.63.2.1.1 Transport channel parameters for Streaming / unknown / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

## 6.11.5.4.1.63.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

## 6.11.5.4.1.63.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.11.5.4.1.63.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                              |
| TFCS                                                                                                                    | (32 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0),<br>(TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0),<br>(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1),<br>(TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                 |

## 6.11.5.4.1.63.2.2 Physical channel parameters

|               |                                        |                                                               |
|---------------|----------------------------------------|---------------------------------------------------------------|
| DPCH Downlink | Modulation                             | QPSK                                                          |
|               | Codes and time slots / radio frame     | SF16 x 4 code x 2 time slots+<br>SF16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 1032 bits                                                     |
|               | TFCI code word / radio frame           | 16 bits                                                       |
|               | TPC / radio frame                      | 2x2 bits                                                      |
|               | SS / radio frame                       | 2x2 bits                                                      |
|               | Puncturing Limit                       | 0.56                                                          |

6.11.5.4.1.64 Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.64.1 Uplink

See clause 6.11.5.4.1.58.1.

6.11.5.4.1.64.2 Downlink

6.11.5.4.1.64.2.1 Transport channel parameters

6.11.5.4.1.64.2.1.1 Transport channel parameters for Streaming / unknown / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.64.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.64.2.1.4 TFCS

See clause 6.10.3.4.1.58.2.1.4.

6.11.5.4.1.64.2.2 Physical channel parameters

|               |                                        |                                                              |
|---------------|----------------------------------------|--------------------------------------------------------------|
| DPCH Downlink | Modulation                             | QPSK                                                         |
|               | Codes and time slots / radio frame     | SF1 x 1 code x 2 time slots+<br>SF16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 3134 bits                                                    |
|               | TFCI code word / radio frame           | 16 bits                                                      |
|               | TPC / radio frame                      | 2x2 bits                                                     |
|               | SS / radio frame                       | 2x2 bits                                                     |
|               | Puncturing Limit                       | 0.56                                                         |

6.11.5.4.1.65 Streaming / unknown / UL:32 DL:256 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.65.1 Uplink

6.11.5.4.1.65.1.1 Transport channel parameters

6.11.5.4.1.65.1.1.1 Transport channel parameters for Streaming / unknown / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.11.5.4.1.65.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.65.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.11.5.4.1.65.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                              |
| TFCS                                                                                                                    | (32 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0),<br>(TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0),<br>(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1),<br>(TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                 |

#### 6.11.5.4.1.65.1.2 Physical channel parameters

|             |                                        |                                                             |
|-------------|----------------------------------------|-------------------------------------------------------------|
| DPCH Uplink | Modulation                             | QPSK                                                        |
|             | Codes and time slots / frame           | SF4 x 1 code x 2 time slots+<br>SF8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 1032 bits                                                   |
|             | TFCl code word / radio frame           | 16 bits                                                     |
|             | TPC / radio frame                      | 2x2 bits                                                    |
|             | SS / radio frame                       | 2x2 bits                                                    |
|             | Puncturing Limit                       | 0.56                                                        |

#### 6.11.5.4.1.65.2 Downlink

##### 6.11.5.4.1.65.2.1 Transport channel parameters

##### 6.11.5.4.1.65.2.1.1 Transport channel parameters for Streaming / unknown / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

##### 6.11.5.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

##### 6.11.5.4.1.65.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.11.5.4.1.65.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20 (alt.28)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| TFCS      | (256 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF4,TF0,TF0),<br>(TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0), (TF4,TF1,TF0),<br>(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1), (TF4,TF0,TF1),<br>(TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1), (TF4,TF1,TF1),<br>(alt. (TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0), (TF4,TF0,TF0),<br>(TF5,TF0,TF0), (TF6,TF0,TF0),(TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0),<br>(TF4,TF1,TF0), (TF5,TF1,TF0), (TF6,TF1,TF0),(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1),<br>(TF3,TF0,TF1), (TF4,TF0,TF1), (TF5,TF0,TF1), (TF6,TF0,TF1),(TF0,TF1,TF1), (TF1,TF1,TF1),<br>(TF2,TF1,TF1), (TF3,TF1,TF1), (TF4,TF1,TF1), (TF5,TF1,TF1), (TF6,TF1,TF1)) |

#### 6.11.5.4.1.65.2.2 Physical channel parameters

|               |                                        |                                                              |
|---------------|----------------------------------------|--------------------------------------------------------------|
| DPCH Downlink | Modulation                             | QPSK                                                         |
|               | Codes and time slots / radio frame     | SF1 x 1 code x 4 time slots+<br>SF16 x 2 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 5960 bits                                                    |
|               | TFCl code word / radio frame           | 16 bits                                                      |
|               | TPC / radio frame                      | 2x2 bits                                                     |
|               | SS / radio frame                       | 2x2 bits                                                     |
|               | Puncturing Limit                       | 0.52                                                         |

6.11.5.4.1.66 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.66.1 Uplink

See clause 6.11.5.4.1.44.1.

6.11.5.4.1.66.2 Downlink

See clause 6.11.5.4.1.41.1.

6.11.5.4.1.67 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.67.1 Uplink

6.11.5.4.1.67.1.1 Transport channel parameters

6.11.5.4.1.67.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.67.1.1.2 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

See clause 6.10.3.4.1.58.1.1.1.

6.11.5.4.1.67.1.1.3 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.67.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.67.1.1.5 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, 8 kbps RAB, DCCH)=(TF0,TF0,TF0,TF0,TF0,TF0),(TF1,TF0,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0,TF0),(TF0,TF0,TF0,TF1,TF0,TF0),(TF1,TF0,TF0,TF1,TF0,TF0),(TF2,TF1,TF1,TF1,TF0,TF0),(TF0,TF0,TF0,TF0,TF1,TF0),(TF1,TF0,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF0,TF1,TF0),(TF0,TF0,TF0,TF1,TF1,TF0),(TF1,TF0,TF0,TF1,TF1,TF0),(TF2,TF1,TF1,TF1,TF1,TF0),(TF0,TF0,TF0,TF0,TF0,TF1),(TF1,TF0,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF0,TF1),(TF0,TF0,TF0,TF1,TF0,TF1),(TF1,TF0,TF0,TF1,TF0,TF1),(TF2,TF1,TF1,TF1,TF0,TF1),(TF0,TF0,TF0,TF0,TF1,TF1),(TF1,TF0,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF0,TF1,TF1),(TF0,TF0,TF0,TF1,TF1,TF1),(TF1,TF0,TF0,TF1,TF1,TF1),(TF2,TF1,TF1,TF1,TF1,TF1) |

6.11.5.4.1.67.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                                                      |
|-------------|----------------------------------------|-----------------------------------------------------------|
|             | Codes and time slots / frame           | SF4 x 1 code x 2 time slots + SF8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 1032 bits                                                 |
|             | TFCI code word / radio frame           | 16 bits                                                   |
|             | TPC / radio frame                      | 2x2 bits                                                  |
|             | SS / radio frame                       | 2x2 bits                                                  |
|             | Puncturing Limit                       | 0.56                                                      |

6.11.5.4.1.67.2 Downlink

6.11.5.4.1.67.2.1 Transport channel parameters

6.11.5.4.1.67.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.67.2.1.2 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.58.2.1.1.

6.11.5.4.1.67.2.1.3 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.67.2.1.4 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.67.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , 8 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0),<br>(TF0, TF0, TF0, TF3, TF0, TF0), (TF1, TF0, TF0, TF3, TF0, TF0), (TF2, TF1, TF1, TF3, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0),<br>(TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0),<br>(TF0, TF0, TF0, TF3, TF1, TF0), (TF1, TF0, TF0, TF3, TF1, TF0), (TF2, TF1, TF1, TF3, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1),<br>(TF0, TF0, TF0, TF3, TF0, TF1), (TF1, TF0, TF0, TF3, TF0, TF1), (TF2, TF1, TF1, TF3, TF0, TF1),<br>(TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1),<br>(TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1),<br>(TF0, TF0, TF0, TF3, TF1, TF1), (TF1, TF0, TF0, TF3, TF1, TF1), (TF2, TF1, TF1, TF3, TF1, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

6.11.5.4.1.67.2.2 Physical channel parameters

| DPCH Downlink | Modulation                           | QPSK                                                           |
|---------------|--------------------------------------|----------------------------------------------------------------|
|               | Codes and time slots / radio frame   | SF 16 x 8 codes x 2 time slots+ SF 16 x 4 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 2028 bits                                                      |
|               | TFCI code word / radio frame         | 16 bits                                                        |
|               | TPC / radio frame                    | 2x2 bits                                                       |
|               | SS / radio frame                     | 2x2 bits                                                       |
|               | Puncturing Limit                     | 0.56                                                           |
|               |                                      |                                                                |

6.11.5.4.1.68 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.68.1 Uplink

See clause 6.11.5.4.1.67.1.

6.11.5.4.1.68.2 Downlink

6.11.5.4.1.68.2.1 Transport channel parameters

6.11.5.4.1.68.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.68.2.1.2 Transport channel parameters for Streaming / unknown / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

#### 6.11.5.4.1.68.2.1.3 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

#### 6.11.5.4.1.68.2.1.4 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.11.5.4.1.68.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0),<br>(TF0, TF0, TF0, TF3, TF0, TF0), (TF1, TF0, TF0, TF3, TF0, TF0), (TF2, TF1, TF1, TF3, TF0, TF0),<br>(TF0, TF0, TF0, TF4, TF0, TF0), (TF1, TF0, TF0, TF4, TF0, TF0), (TF2, TF1, TF1, TF4, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0),<br>(TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0),<br>(TF0, TF0, TF0, TF3, TF1, TF0), (TF1, TF0, TF0, TF3, TF1, TF0), (TF2, TF1, TF1, TF3, TF1, TF0),<br>(TF0, TF0, TF0, TF4, TF1, TF0), (TF1, TF0, TF0, TF4, TF1, TF0), (TF2, TF1, TF1, TF4, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1),<br>(TF0, TF0, TF0, TF3, TF0, TF1), (TF1, TF0, TF0, TF3, TF0, TF1), (TF2, TF1, TF1, TF3, TF0, TF1),<br>(TF0, TF0, TF0, TF4, TF0, TF1), (TF1, TF0, TF0, TF4, TF0, TF1), (TF2, TF1, TF1, TF4, TF0, TF1),<br>(TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1),<br>(TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1),<br>(TF0, TF0, TF0, TF3, TF1, TF1), (TF1, TF0, TF0, TF3, TF1, TF1), (TF2, TF1, TF1, TF3, TF1, TF1),<br>(TF0, TF0, TF0, TF4, TF1, TF1), (TF1, TF0, TF0, TF4, TF1, TF1), (TF2, TF1, TF1, TF4, TF1, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

#### 6.11.5.4.1.68.2.2 Physical channel parameters

| DPCH Downlink | Modulation                           | QPSK                                                             |
|---------------|--------------------------------------|------------------------------------------------------------------|
|               | Codes and time slots / radio frame   | SF 1 x 1 codes x 2 time slots+<br>SF 16 x 4 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 3496 bits                                                        |
|               | TFPI code word / radio frame         | 16 bits                                                          |
|               | TPC / radio frame                    | 2x2 bits                                                         |
|               | SS / radio frame                     | 2x2 bits                                                         |
|               | Puncturing Limit                     | 0.56                                                             |

#### 6.11.5.4.1.69 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.11.5.4.1.69.1 Uplink

#### 6.11.5.4.1.69.1.1 Transport channel parameters

#### 6.11.5.4.1.69.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

#### 6.11.5.4.1.69.1.1.2 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

#### 6.11.5.4.1.69.1.1.3 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

#### 6.11.5.4.1.69.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.11.5.4.1.69.1.1.5 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0),<br>(TF0, TF0, TF0, TF3, TF0, TF0), (TF1, TF0, TF0, TF3, TF0, TF0), (TF2, TF1, TF1, TF3, TF0, TF0),<br>(TF0, TF0, TF0, TF4, TF0, TF0), (TF1, TF0, TF0, TF4, TF0, TF0), (TF2, TF1, TF1, TF4, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0),<br>(TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0),<br>(TF0, TF0, TF0, TF3, TF1, TF0), (TF1, TF0, TF0, TF3, TF1, TF0), (TF2, TF1, TF1, TF3, TF1, TF0),<br>(TF0, TF0, TF0, TF4, TF1, TF0), (TF1, TF0, TF0, TF4, TF1, TF0), (TF2, TF1, TF1, TF4, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1),<br>(TF0, TF0, TF0, TF3, TF0, TF1), (TF1, TF0, TF0, TF3, TF0, TF1), (TF2, TF1, TF1, TF3, TF0, TF1),<br>(TF0, TF0, TF0, TF4, TF0, TF1), (TF1, TF0, TF0, TF4, TF0, TF1), (TF2, TF1, TF1, TF4, TF0, TF1),<br>(TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1),<br>(TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1),<br>(TF0, TF0, TF0, TF3, TF1, TF1), (TF1, TF0, TF0, TF3, TF1, TF1), (TF2, TF1, TF1, TF3, TF1, TF1),<br>(TF0, TF0, TF0, TF4, TF1, TF1), (TF1, TF0, TF0, TF4, TF1, TF1), (TF2, TF1, TF1, TF4, TF1, TF1) |

#### 6.11.5.4.1.69.1.2 Physical channel parameters

|             |                                        |                                                             |
|-------------|----------------------------------------|-------------------------------------------------------------|
| DPCH Uplink | Modulation                             | QPSK                                                        |
|             | Codes and time slots / frame           | SF1 x 1 code x 2 time slots+<br>SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 3496 bits                                                   |
|             | TFCI code word / radio frame           | 16 bits                                                     |
|             | TPC / radio frame                      | 2x2 bits                                                    |
|             | SS / radio frame                       | 2x2 bits                                                    |
|             | Puncturing Limit                       | 0.56                                                        |

#### 6.11.5.4.1.69.2 Downlink

See clause 6.11.5.4.1.67.2.

6.11.5.4.1.70 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.11.5.4.1.70.1 Uplink

##### 6.11.5.4.1.70.1.1 Transport channel parameters

6.11.5.4.1.70.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB    | RAB                            | RAB    | RAB    |
|--------------|----------------------|--------------------------------|--------|--------|
| RLC          | Logical channel type | DTCH                           | DTCH   | DTCH   |
|              | RLC mode             | AM                             | AM     | AM     |
|              | Payload sizes, bit   | 320                            | 320    | 320    |
|              | Max data rate, bps   | 64 000                         | 64 000 | 64 000 |
|              | AMD PDU header, bit  | 16                             | 16     | 16     |
| MAC          | MAC header, bit      | 4                              | 4      | 4      |
|              | MAC multiplexing     | 3 logical channel multiplexing |        |        |
| Layer 1      | TrCH type            | DCH                            |        |        |
|              | TB sizes, bit        | 340                            |        |        |

|  |                                                     |           |            |
|--|-----------------------------------------------------|-----------|------------|
|  | TFS                                                 | TF0, bits | 0x340      |
|  |                                                     | TF1, bits | 1x340      |
|  |                                                     | TF2, bits | 2x340      |
|  |                                                     | TF3, bits | 3x340      |
|  |                                                     | TF4, bits | 4x340      |
|  | TTI, ms                                             |           | 20         |
|  | Coding type                                         |           | TC         |
|  | CRC, bit                                            |           | 16         |
|  | Max number of bits/TTI after channel coding         |           | 4 284      |
|  | Max number of bits/radio frame before rate matching |           | 2142       |
|  | RM attribute                                        |           | 130 to 170 |

#### 6.11.5.4.1.70.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.11.5.4.1.70.1.1.3 TFCS

|           |                                                                                                                                                                     |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                                  |
| TFCS      | (64 kbps RAB + 64 kbps RAB + 64 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0),<br>(TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |

#### 6.11.5.4.1.70.1.2 Physical channel parameters

See clause 6.11.5.4.1.57.1.2.

#### 6.11.5.4.1.70.2 Downlink

#### 6.11.5.4.1.70.2.1 Transport channel parameters

#### 6.11.5.4.1.70.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                           |           | RAB                            | RAB    | RAB    |
|--------------|-------------------------------------------------------------|-----------|--------------------------------|--------|--------|
| RLC          | Logical channel type                                        |           | DTCH                           | DTCH   | DTCH   |
|              | RLC mode                                                    |           | AM                             | AM     | AM     |
|              | Payload sizes, bit                                          |           | 320                            | 320    | 320    |
|              | Max data rate, bps                                          |           | 64 000                         | 64 000 | 64 000 |
|              | AMD PDU header, bit                                         |           | 16                             | 16     | 16     |
| MAC          | MAC header, bit                                             |           | 4                              | 4      | 4      |
|              | MAC multiplexing                                            |           | 3 logical channel multiplexing |        |        |
| Layer 1      | TrCH type                                                   |           | DCH                            |        |        |
|              | TB sizes, bit                                               |           | 340                            |        |        |
|              | TFS                                                         | TF0, bits | 0x340                          |        |        |
|              |                                                             | TF1, bits | 1x340                          |        |        |
|              |                                                             | TF2, bits | 2x340                          |        |        |
|              |                                                             | TF3, bits | 3x340                          |        |        |
|              |                                                             | TF4, bits | 4x340                          |        |        |
|              | TTI, ms                                                     |           | 20                             |        |        |
|              | Coding type                                                 |           | TC                             |        |        |
|              | CRC, bit                                                    |           | 16                             |        |        |
|              | Max number of bits/TTI after channel coding                 |           | 4 284                          |        |        |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 2 142                          |        |        |
|              | RM attribute                                                |           | 130 to 170                     |        |        |

#### 6.11.5.4.1.70.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.11.5.4.1.70.2.1.3 TFCS

|           |                                                  |
|-----------|--------------------------------------------------|
| TFCS size | 10                                               |
| TFCS      | (64 kbps RAB + 64 kbps RAB + 64 kbps RAB, DCCH)= |



|  |                                                                                                                 |
|--|-----------------------------------------------------------------------------------------------------------------|
|  | (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0),<br>(TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
|--|-----------------------------------------------------------------------------------------------------------------|

#### 6.11.5.4.1.70.2.2 Physical channel parameters

See clause 6.11.5.4.1.57.2.2.

#### 6.11.5.4.2 Combinations on PDSCH, SCCPCH, PUSCH and PRACH

6.11.5.4.2.1 Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 3.4/16.8  
DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs  
for SHCCH

##### 6.11.5.4.2.1.1 Uplink

##### 6.11.5.4.2.1.1.1 Transport channel parameters

6.11.5.4.2.1.1.1.1 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB  
and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

6.11.5.4.2.1.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.2.

##### 6.11.5.4.2.1.1.1.3 TFCS for USCH

See clause 6.10.3.4.2.1.1.1.3.

6.11.5.4.2.1.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL  
SRB for SHCCH mapped on RACH

See clause 6.10.3.4.2.1.1.1.4.

##### 6.11.5.4.2.1.1.2 Physical channel parameters

##### 6.11.5.4.2.1.1.2.1 Physical channel parameters for PUSCH

|       |                                      |                              |
|-------|--------------------------------------|------------------------------|
| PUSCH | Modulation                           | QPSK                         |
|       | Codes and time slots / radio frame   | SF 1 x 1 code x 2 time slots |
|       | Max. Number of data bits/radio frame | 2 792 bits                   |
|       | TFCI code word / radio frame         | 16 bits                      |
|       | TPC / radio frame                    | 2x2 bits                     |
|       | SS / radio frame                     | 2x2 bits                     |
|       | Puncturing Limit                     | 0.88                         |

##### 6.11.5.4.2.1.1.2.2 Physical channel parameter for PRACH.

See clause 6.11.5.4.5.1.2.

##### 6.11.5.4.2.1.2 Downlink

##### 6.11.5.4.2.1.2.1 Transport channel parameters

6.11.5.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB  
and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

6.11.5.4.2.1.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

##### 6.11.5.4.2.1.2.1.3 TFCS for DSCH

See clause 6.10.3.4.2.1.2.1.3.

#### 6.11.5.4.2.1.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

##### 6.11.5.4.2.1.2.1.4.1 FACH transport channel configuration without DTCH

|              |                                             |                                |                                                   |                            |                            |                            |                            |                            |
|--------------|---------------------------------------------|--------------------------------|---------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Higher layer | RAB/signalling RB                           | SRB#0                          | SRB#1                                             | SRB#2                      | SRB#3                      | SRB#4                      | SRB#5                      | SRB#6                      |
|              | User of Radio Bearer                        | RRC                            | RRC                                               | RRC                        | NAS_DT<br>High prio        | NAS_DT<br>Low prio         | RRC                        | RRC                        |
| RLC          | Logical channel type                        | CCCH                           | DCCH                                              | DCCH                       | DCCH                       | DCCH                       | SHCCH                      | BCCH                       |
|              | RLC mode                                    | UM                             | UM                                                | AM                         | AM                         | AM                         | UM                         | TM                         |
|              | Payload sizes, bit                          | 160                            | 136 or 120*                                       | 128                        | 128                        | 128                        | 160                        | 168                        |
|              | Max data rate, bps                          | 32 000<br>(alt.<br>16 000)     | 27 200 or<br>24 000 (alt.<br>13 600 or<br>12 000) | 25 600<br>(alt.<br>12 800) | 25 600<br>(alt.<br>12 800) | 25 600<br>(alt.<br>12 800) | 32 000<br>(alt.<br>16 000) | 33 600<br>(alt.<br>16 000) |
|              | RLC header, bit                             | 8                              | 8                                                 | 16                         | 16                         | 16                         | 8                          | 0                          |
| MAC          | MAC header, bit                             | 3                              | 27 or 43                                          | 27                         | 27                         | 27                         | 3                          | 3                          |
|              | MAC multiplexing                            | 7 logical channel multiplexing |                                                   |                            |                            |                            |                            |                            |
| Layer 1      | TrCH type                                   |                                | FACH                                              |                            |                            |                            |                            |                            |
|              | TB sizes, bit                               |                                | 171                                               | 171                        | 171                        | 171                        | 171                        | 171                        |
|              | TFS                                         | TF0, bits                      | 0x171                                             |                            |                            |                            |                            |                            |
|              |                                             | TF1, bits                      | 1x171                                             |                            |                            |                            |                            |                            |
|              |                                             | TF2, bits                      | 2x171                                             |                            |                            |                            |                            |                            |
|              |                                             | TF3, bits                      | 3x171( alt. N/A)                                  |                            |                            |                            |                            |                            |
|              |                                             | TF4, bits                      | 4x171( alt. N/A)                                  |                            |                            |                            |                            |                            |
|              |                                             | TF5, bits                      |                                                   |                            |                            |                            |                            |                            |
|              |                                             | TF6, bits                      |                                                   |                            |                            |                            |                            |                            |
|              | TTI, ms                                     |                                | 20                                                |                            |                            |                            |                            |                            |
|              | Coding type                                 |                                | CC 1/2                                            |                            |                            |                            |                            |                            |
|              | CRC, bit                                    |                                | 16                                                |                            |                            |                            |                            |                            |
|              | Max number of bits/TTI after channel coding |                                | 1 528<br>(alt. 764)                               | 1 528<br>(alt. 764)        | 1 528<br>(alt. 764)        | 1 528<br>(alt. 764)        | 1 528<br>(alt. 764)        | 1 528<br>(alt. 764)        |

NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.

##### 6.11.5.4.2.1.2.1.4.2 FACH transport channel configuration with DTCH

| Higher layer | RAB/signalling RB           | RAB                            | SRB#0                | SRB#1                                    | SRB#2                | SRB#3                | SRB#4                | SRB#5                | SRB#6                |
|--------------|-----------------------------|--------------------------------|----------------------|------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|              | User of Radio Bearer        | Interactive/ Background RAB    | RRC                  | RRC                                      | RRC                  | NAS_DT High prio     | NAS_DT Low prio      | RRC                  | RRC                  |
| RLC          | Logical channel type        | DTCH                           | CCCH                 | DCCH                                     | DCCH                 | DCCH                 | DCCH                 | SHCCH                | BCCH                 |
|              | RLC mode                    | AM                             | UM                   | UM                                       | AM                   | AM                   | AM                   | UM                   | TM                   |
|              | Payload sizes, bit          | 320                            | 160                  | 136 or 120 (note)                        | 128                  | 128                  | 128                  | 160                  | 168                  |
|              | Max data rate, bps          | 32 000 (alt. 16 000)           | 32 000 (alt. 16 000) | 27 200 or 24 000 (alt. 13 600 or 12 000) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 25 600 (alt. 12 800) | 32 000 (alt. 16 000) | 33 600 (alt. 16 800) |
|              | AMD/UMD/TrD PDU header, bit | 16                             | 8                    | 8                                        | 16                   | 16                   | 16                   | 8                    | 0                    |
| MAC          | MAC header, bit             | 27                             | 3                    | 27 or 43                                 | 27                   | 27                   | 27                   | 3                    | 3                    |
|              | MAC multiplexing            | 8 logical channel multiplexing |                      |                                          |                      |                      |                      |                      |                      |
| Layer 1      | TrCH type                   | FACH                           |                      |                                          |                      |                      |                      |                      |                      |
|              | TB sizes, bit               | 171, 363                       |                      |                                          |                      |                      |                      |                      |                      |
|              | TFS                         | TF0, bits                      | 0x171                |                                          |                      |                      |                      |                      |                      |
|              |                             | TF1, bits                      | 1x171                |                                          |                      |                      |                      |                      |                      |
|              |                             | TF2, bits                      | 2x171                |                                          |                      |                      |                      |                      |                      |
|              |                             | TF3, bits                      | 1x363                |                                          |                      |                      |                      |                      |                      |
|              |                             | TF4, bits                      | 3x171 (alt N/A)      |                                          |                      |                      |                      |                      |                      |
|              |                             | TF5, bits                      | 4x171 (alt. N/A)     |                                          |                      |                      |                      |                      |                      |
|              |                             |                                |                      |                                          |                      |                      |                      |                      |                      |

|                                                                               |                                             |                  |
|-------------------------------------------------------------------------------|---------------------------------------------|------------------|
|                                                                               | TF6, bits                                   | 2x363 (alt. N/A) |
|                                                                               | TTI, ms                                     | 20               |
|                                                                               | Coding type                                 | CC ½             |
|                                                                               | CRC, bit                                    | 16               |
|                                                                               | Max number of bits/TTI after channel coding | 1 532 (alt. 766) |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. |                                             |                  |

#### 6.11.5.4.2.1.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.5.

#### 6.11.5.4.2.1.2.2 Physical channel parameters

##### 6.11.5.4.2.1.2.2.1 Physical channel parameters for PDSCH

| PDSCH | Modulation                           | QPSK                           | 8PSK                        |
|-------|--------------------------------------|--------------------------------|-----------------------------|
|       | Codes and time slots / radio frame   | SF16 x 11 codes x 6 time slots | SF1 x 1 code x 4 time slots |
|       | Max. Number of data bits/radio frame | 5 784 bits                     | 6 511 bits                  |
|       | TFCI code word / radio frame         | 16 bits                        | 24 bits                     |
|       | TPC / radio frame                    | 2x2 bits                       | 2x3 bits                    |
|       | SS / radio frame                     | 2x2 bits                       | 2x3 bits                    |
|       | Puncturing Limit                     | 0.60                           | 0.68                        |

##### 6.11.5.4.2.1.2.2.2 Physical channel parameters for SCCPCH

##### 6.11.5.4.2.1.2.2.2.1 Physical channel parameters for SCCPCH without DTCH

| S-CCPCH | Modulation                           | QPSK                                                                 |
|---------|--------------------------------------|----------------------------------------------------------------------|
|         | Codes and time slots / radio frame   | SF16 x 5 codes x 2 time slots<br>(alt. SF16 x 2 codes x 2 time slot) |
|         | Max. Number of data bits/radio frame | 864 bits (alt. 344 bits)                                             |
|         | TFCI code word / radio frame         | 16 bits                                                              |
|         | TP(alt. 8 bits)C/ radio frame        | 0 bits                                                               |
|         | SS / radio frame                     | 0 bits                                                               |
|         | Puncturing Limit                     | 1 (alt. 0.88)                                                        |

##### 6.11.5.4.2.1.2.2.2.2 Physical channel parameters for SCCPCH with DTCH

| S-CCPCH | Modulation                           | QPSK                                                                 |
|---------|--------------------------------------|----------------------------------------------------------------------|
|         | Codes and time slots / radio frame   | SF16 x 5 codes x 2 time slots<br>(alt. SF16 x 2 codes x 2 time slot) |
|         | Max. Number of data bits/radio frame | 864 bits (alt. 336 bits)                                             |
|         | TFCI code word / radio frame         | 16 bits                                                              |
|         | TPC / radio frame                    | 0 bits                                                               |
|         | SS / radio frame                     | 0 bits                                                               |
|         | Puncturing Limit                     | 1 (alt. 0.84)                                                        |

#### 6.11.5.4.2.2 Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

##### 6.11.5.4.2.2.1 Uplink

See clause 6.11.5.4.2.1.1.

##### 6.11.5.4.2.2.2 Downlink

##### 6.11.5.4.2.2.2.1 Transport channel parameters

##### 6.11.5.4.2.2.2.1.1 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.1.1.

6.11.5.4.2.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

6.11.5.4.2.2.1.3 TFCS for DSCH

See clause 6.10.3.4.2.2.1.3.

6.11.5.4.2.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.2.1.2.1.4.

6.11.5.4.2.2.1.5 TFCS for FACH

See clause 6.11.5.4.2.1.2.1.5.

6.11.5.4.2.2.2 Physical channel parameters

6.11.5.4.2.2.2.1 Physical channel parameters for PDSCH

|       |                                      |                              |
|-------|--------------------------------------|------------------------------|
| PDSCH | Modulation                           | QPSK                         |
|       | Codes and time slots / radio frame   | SF 1 x 1 code x 6 time slots |
|       | Max. Number of data bits/radio frame | 8 424 bits                   |
|       | TFCI code word / radio frame         | 16 bits                      |
|       | TPC / radio frame                    | 2x2 bits                     |
|       | SS / radio frame                     | 2x2 bits                     |
|       | Puncturing Limit                     | 0.60                         |

6.11.5.4.2.2.2.2 Physical channel parameters for SCCPCH

See clause 6.11.5.4.2.1.2.2.2.

6.11.5.4.2.3 Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.5.4.2.3.1 Uplink

See clause 6.11.5.4.2.1.1.

6.11.5.4.2.3.2 Downlink

6.11.5.4.2.3.2.1 Transport channel parameters

6.11.5.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

| Higher layer | RAB/Signalling RB    |           | RAB       | SRB#5  |
|--------------|----------------------|-----------|-----------|--------|
| RLC          | Logical channel type |           | DTCH      | SHCCH  |
|              | RLC mode             |           | AM        | UM     |
|              | Payload sizes, bit   |           | 1 704     | 160    |
|              | Max data rate, bps   |           | 2 048 000 | 16 000 |
|              | RLC header, bit      |           | 16        | 8      |
| MAC          | MAC header, bit      |           | 0         | 0      |
|              | MAC multiplexing     |           | N/A       | N/A    |
| Layer 1      | TrCH type            |           | DSCH      | DSCH   |
|              | TB sizes, bit        |           | 1720      | 168    |
|              | TFS                  | TF0, bits | 0x1720    | 0x168  |
|              |                      | TF1, bits | 1x1720    | 1x168  |
|              |                      | TF2, bits | 2x1720    | N/A    |
|              |                      | TF3, bits | 4x1720    | N/A    |
|              |                      | TF4, bits | 8x1720    | N/A    |
|              |                      | TF5, bits | 12x1720   | N/A    |

|  |                                                               |                      |            |
|--|---------------------------------------------------------------|----------------------|------------|
|  | TF6, bits                                                     | N/A (alt. 16x1720)   | N/A        |
|  | TF7, bits                                                     | N/A (alt. 20x1720)   | N/A        |
|  | TF8, bits                                                     | N/A (alt. 24x1720)   | N/A        |
|  | TTI, ms                                                       | 10 (alt. 20)         | 10         |
|  | Coding type                                                   | No Coding            | CC 1/2     |
|  | CRC, bit                                                      | 24                   | 16         |
|  | Max number of bits/TTI after channel coding                   | 20 928 (alt. 41 856) | 384        |
|  | Downlink: Max number of bits/radio frame before rate matching | 20 928 (alt. 20 928) | 384        |
|  | RM attribute                                                  | 135 to 175           | 180 to 220 |

#### 6.11.5.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

#### 6.11.5.4.2.3.2.1.3 TFCS for DSCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 22 (alt.34)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TFCS      | (2 048 kbps RAB, SHCCH, SRBs for DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0),<br>(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1),<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),<br>(TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0),<br>(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0),<br>(TF6, TF1, TF0), (TF7, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1),<br>(TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1),<br>(TF6, TF1, TF1), (TF7, TF1, TF1)) |

For better understanding of the TFCS please note that the following combinations are not included in the table above:

- (TF5, TF1, TF0), (TF5, TF1, TF1), (TF8, TF1, TF0), (TF8, TF1, TF1).

#### 6.11.5.4.2.3.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.2.1.2.1.4.

#### 6.11.5.4.2.3.2.1.5 TFCS for FACH

See clause 6.11.5.4.2.1.2.1.5.

#### 6.11.5.4.2.3.2.2 Physical channel parameters

##### 6.11.5.4.2.3.2.2.1 Physical channel parameters for PDSCH

|       |                                      |                              |
|-------|--------------------------------------|------------------------------|
| PDSCH | Modulation                           | 8PSK                         |
|       | Codes and time slots / radio frame   | SF1 x 1 code x 10 time slots |
|       | Max. Number of data bits/radio frame | 21 084 bits                  |
|       | TFCI code word / radio frame         | 24 bits                      |
|       | TPC / radio frame                    | 2x3 bits                     |
|       | SS / radio frame                     | 2x3 bits                     |
|       | Puncturing Limit                     | 1                            |

##### 6.11.5.4.2.3.2.2.2 Physical channel parameters for S-CCPCH

See clause 6.11.5.4.2.1.2.2.2.

#### 6.11.5.4.3 Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

6.11.5.4.3.1 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.11.5.4.3.1.1 Uplink

6.11.5.4.3.1.1.1 Transport channel parameters

6.11.5.4.3.1.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.3.1.1.1.2 Transport channel parameters for UL SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.3.1.1.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.1.1.3.

6.11.5.4.3.1.1.1.4 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

6.11.5.4.3.1.1.1.5 TFCS for USCH

See clause 6.10.3.4.3.1.1.1.5.

6.11.5.4.3.1.1.1.6 Transport channel parameters for SRB for CCCH and UL SRB for SHCCH mapped on RACH

See clause 6.10.3.4.3.1.1.1.6.

6.11.5.4.3.1.1.2 Physical channel parameters

Physical channel parameters for uplink DPCH see clause 6.11.5.4.1.4.1.2.

Physical channel parameters for PUSCH see clause 6.11.5.4.2.1.1.2.

Physical channel parameters for PRACH see clause 6.11.5.4.2.1.1.2.

6.11.5.4.3.1.2 Downlink

6.11.5.4.3.1.2.1 Transport channel parameters

6.11.5.4.3.1.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.3.1.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.1.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.1.2.1.4 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

6.11.5.4.3.1.2.1.5 TFCS for DSCH

See clause 6.10.3.4.3.1.2.1.5.

#### 6.11.5.4.3.1.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

|              |                                                     |                                |        |        |
|--------------|-----------------------------------------------------|--------------------------------|--------|--------|
| Higher layer | RAB/Signalling RB                                   | SRB#0                          | SRB#5  | SRB#6  |
|              | User of Radio Bearer                                | RRC                            | RRC    | RRC    |
| RLC          | Logical channel type                                | CCCH                           | SHCCH  | BCCH   |
|              | RLC mode                                            | UM                             | UM     | TM     |
|              | Payload sizes, bit                                  | 160                            | 160    | 168    |
|              | Max data rate, bps                                  | 32 000                         | 32 000 | 33 600 |
|              | RLC header, bit                                     | 8                              | 8      | 0      |
| MAC          | MAC header, bit                                     | 3                              |        |        |
|              | MAC multiplexing                                    | 3 logical channel multiplexing |        |        |
| Layer 1      | TrCH type                                           | FACH                           |        |        |
|              | TB sizes, bit                                       | 171                            |        |        |
|              | TFS                                                 | TF0, bits                      |        |        |
|              |                                                     | 0x171                          |        |        |
|              |                                                     | TF1, bits                      |        |        |
|              |                                                     | 1x171                          |        |        |
|              |                                                     | TF2, bits                      |        |        |
|              |                                                     | 2x171                          |        |        |
|              |                                                     | TF3, bits                      |        |        |
|              |                                                     | 3x171                          |        |        |
|              |                                                     | TF4, bits                      |        |        |
|              |                                                     | 4x171                          |        |        |
|              | TTI, ms                                             | 20                             |        |        |
|              | Coding type                                         | CC 1/2                         |        |        |
|              | CRC, bit                                            | 16                             |        |        |
|              | Max number of bits/TTI after channel coding         | 1 528                          |        |        |
|              | Max number of bits/radio frame before rate matching | 764                            |        |        |

#### 6.11.5.4.3.1.2.1.7 TFCS for FACH

|           |                                |
|-----------|--------------------------------|
| TFCS size | 5                              |
| TFCS      | FACH = TF0, TF1, TF2, TF3, TF4 |

#### 6.11.5.4.3.1.2.2 Physical channel parameters

Physical channel parameters for downlink for DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for downlink for PDSCH see clause 6.11.5.4.2.1.2.2.

Physical channel parameters for SCCPCH see clause 6.11.5.4.2.1.2.2.

6.11.5.4.3.2 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

#### 6.11.5.4.3.2.1 Uplink

See clause 6.11.5.4.3.1.1.

#### 6.11.5.4.3.2.2 Downlink

##### 6.11.5.4.3.2.2.1 Transport channel parameters

6.11.5.4.3.2.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.1.4.1.4.2.1.1.

6.11.5.4.3.2.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.11.5.4.3.2.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.2.2.1.4 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.2.1.1.

6.11.5.4.3.2.2.1.5 TFCS for DSCH

See clause 6.10.3.4.3.2.2.1.5.

6.11.5.4.3.2.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.3.1.2.1.6.

6.11.5.4.3.2.2.1.7 TFCS for FACH

See clause 6.11.5.4.3.1.2.1.7.

6.11.5.4.3.2.2.2 Physical channel parameters

Physical channel parameters for downlink for DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for downlink for PDSCH see clause 6.11.5.4.2.2.2.2.

Physical channel parameters for downlink for SCCPCH see clause 6.11.5.4.2.1.2.2.

6.11.5.4.3.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 16.8 kbps SRBs for CCCH and SHCCH + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.11.5.4.3.3.1 Uplink

See clause 6.11.5.4.3.1.1.

6.11.5.4.3.3.2 Downlink

6.11.5.4.3.3.2.1 Transport channel parameters

6.11.5.4.3.3.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.3.3.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.3.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.3.2.1.4 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.11.5.4.2.3.2.1.2.

6.11.5.4.3.3.2.1.5 TFCS for DSCH

See clause 6.11.5.4.2.3.2.1.4.

6.11.5.4.3.3.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.3.1.2.1.6.

6.11.5.4.3.3.2.1.7 TFCS for FACH



See clause 6.11.5.4.3.1.2.1.7.

#### 6.11.5.4.3.3.2.2 Physical channel parameters

Physical channel parameters for downlink DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for PDSCH see clause 6.11.5.4.2.3.2.2.

Physical channel parameters for SCCPCH see clause 6.11.5.4.2.1.2.2.

#### 6.11.5.4.4 Combinations on SCCPCH

##### 6.11.5.4.4.1 Stand-alone signalling RB for PCCH

##### 6.11.5.4.4.1.1 Transport channel parameters

##### 6.11.5.4.4.1.1.1 Transport channel parameter of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

##### 6.11.5.4.4.1.1.2 TFCS

See clause 6.10.3.4.4.1.1.2.

##### 6.11.5.4.4.1.2 Physical channel parameters

|                                                                                                                              |                                      |                                                                       |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------|
| S-CCPCH                                                                                                                      | Modulation                           | QPSK                                                                  |
|                                                                                                                              | Codes and time slots / radio frame   | SF16 x 2 codes x 2 time slots<br>(alt. SF16 x 1 codes x 2 time slots) |
|                                                                                                                              | Max. Number of data bits/radio frame | 344 bits (alt. 168 bits)                                              |
|                                                                                                                              | TFCS code word / radio frame         | 8 bits                                                                |
|                                                                                                                              | TPC / radio frame                    | 0 bits                                                                |
|                                                                                                                              | SS / radio frame                     | 0 bits                                                                |
|                                                                                                                              | Puncturing Limit                     | 1 (alt. 0.84)                                                         |
| NOTE: Alt. Puncturing Limit applies when alt. payload sizes and alt. codes and time slots / radio frame are both configured. |                                      |                                                                       |

##### 6.11.5.4.4.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

##### 6.11.5.4.4.2.1 Transport channel parameters

##### 6.11.5.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

|              |                                             |           |                             |
|--------------|---------------------------------------------|-----------|-----------------------------|
| Higher layer | RAB/signalling RB                           |           | RAB                         |
|              | User of Radio Bearer                        |           | Interactive/ Background RAB |
| RLC          | Logical channel type                        |           | DTCH                        |
|              | RLC mode                                    |           | AM                          |
|              | Payload sizes, bit                          |           | 320                         |
|              | Max data rate, bps                          |           | 32 000                      |
|              | AMD PDU header, bit                         |           | 16                          |
| MAC          | MAC header, bit                             |           | 27                          |
|              | MAC multiplexing                            |           | N/A                         |
| Layer 1      | TrCH type                                   |           | FACH                        |
|              | TB sizes, bit                               |           | 363                         |
|              | TFS                                         | TF0, bits | 0x363                       |
|              |                                             | TF1, bits | 1x363                       |
|              |                                             | TF2, bits | 2x363                       |
|              | TTI, ms                                     |           | 20                          |
|              | Coding type                                 |           | TC                          |
|              | CRC, bit                                    |           | 16                          |
|              | Max number of bits/TTI before rate matching |           | 2298                        |
|              | RM attribute                                |           | 110 to 150                  |

#### 6.11.5.4.4.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

|                                                                               |                                                     |                                |                                                 |                            |                            |                            |                            |
|-------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------|-------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Higher layer                                                                  | RAB/signalling RB                                   | SRB#0                          | SRB#1                                           | SRB#2                      | SRB#3                      | SRB#4                      | SRB#5                      |
|                                                                               | User of Radio Bearer                                | RRC                            | RRC                                             | RRC                        | NAS_DT<br>High prio        | NAS_DT<br>Low prio         | RRC                        |
| RLC                                                                           | Logical channel type                                | CCCH                           | DCCH                                            | DCCH                       | DCCH                       | DCCH                       | BCCH                       |
|                                                                               | RLC mode                                            | UM                             | UM                                              | AM                         | AM                         | AM                         | TM                         |
|                                                                               | Payload sizes, bit                                  | 160                            | 136 or 120                                      | 128                        | 128                        | 128                        | 168                        |
|                                                                               | Max data rate, bps                                  | 32 000<br>(alt.<br>16 000)     | 27 200 or<br>2400 (alt.<br>24 000 or<br>12 000) | 25 600<br>(alt.<br>12 800) | 25 600<br>(alt.<br>12 800) | 25 600<br>(alt.<br>12 800) | 33 600<br>(alt.<br>16 800) |
|                                                                               | RLC header, bit                                     | 8                              | 8                                               | 16                         | 16                         | 16                         | 0                          |
| MAC                                                                           | MAC header, bit                                     | 3                              | 27 or 43                                        | 27                         | 27                         | 27                         | 3                          |
|                                                                               | MAC multiplexing                                    | 6 logical channel multiplexing |                                                 |                            |                            |                            |                            |
| Layer 1                                                                       | TrCH type                                           |                                | FACH                                            |                            |                            |                            |                            |
|                                                                               | TB sizes, bit                                       |                                | 171                                             |                            |                            |                            |                            |
|                                                                               | TFS                                                 | TF0, bits                      | 0x171                                           |                            |                            |                            |                            |
|                                                                               |                                                     | TF1, bits                      | 1x171                                           |                            |                            |                            |                            |
|                                                                               |                                                     | TF2, bits                      | 2x171                                           |                            |                            |                            |                            |
|                                                                               |                                                     | TF3, bits                      | 3x171 (alt. N/A)                                |                            |                            |                            |                            |
|                                                                               |                                                     | TF4, bits                      | 4x171 (alt. N/A)                                |                            |                            |                            |                            |
|                                                                               | TTI, ms                                             |                                | 20                                              |                            |                            |                            |                            |
|                                                                               | Coding type                                         |                                | CC 1/2                                          |                            |                            |                            |                            |
|                                                                               | CRC, bit                                            |                                | 16                                              |                            |                            |                            |                            |
|                                                                               | Max number of bits/TTI before rate matching         |                                | 1 528 (alt. 764)                                |                            |                            |                            |                            |
|                                                                               | Max number of bits/radio frame before rate matching |                                | 764 (alt. 382)                                  |                            |                            |                            |                            |
|                                                                               | RM attribute                                        |                                | 200 to 240                                      |                            |                            |                            |                            |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. |                                                     |                                |                                                 |                            |                            |                            |                            |

#### 6.11.5.4.4.2.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                                                    |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 9 (alt 13)                                                                                                                                                                                                                                                                                                                         |
| TFCS      | (SRBs for CCCH/DCCH/BCCH, 32kbps RAB) =<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF0, TF2), (TF1, TF2) ,<br>(TF2, TF2)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2,<br>TF1), (TF3, TF1), (TF4, TF1), (TF0, TF2), (TF1, TF2) , (TF2, TF2)) |

#### 6.11.5.4.4.2.2 Physical channel parameters

|                                                                                                                     |                                      |                                                                        |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------|
| SCCPCH                                                                                                              | Modulation                           | QPSK                                                                   |
|                                                                                                                     | Codes and time slots / radio frame   | SF 16 x 5 codes x 2 time slots<br>(alt. SF16 x 2 codes x 2 time slots) |
|                                                                                                                     | Max. Number of data bits/radio frame | 1 568 bits (alt. 688 bits)                                             |
|                                                                                                                     | TFCI code word / radio frame         | 16 bits                                                                |
|                                                                                                                     | TPC / radio frame                    | 0 bits                                                                 |
|                                                                                                                     | SS / radio frame                     | 0 bits                                                                 |
|                                                                                                                     | Puncturing Limit                     | 0.52 (alt. 0.48)                                                       |
| NOTE: Alt. Puncturing Limit applies when alt. TFCS and alt. codes and time slots / radio frame are both configured. |                                      |                                                                        |

#### 6.11.5.4.4.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

##### 6.11.5.4.4.2a.1 Transport channel parameters

##### 6.11.5.4.4.2a.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB

See clause 6.10.3.4.2a.1.1.

6.11.5.4.4.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.2a.1.3 TFCS

See clause 6.10.3.4.4.2a.1.3.

6.11.5.4.4.2a.2 Physical channel parameters

See clause 6.11.5.4.4.2.2.

6.11.5.4.4.2b SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.2b.1 Transport channel parameters

6.11.5.4.4.2b.1.1 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.2b.1.2 TFCS

See clause 6.10.3.4.4.2b.1.2.

6.11.5.4.4.2b.2 Physical channel parameters

|                                                                                                                     |                                      |                                                                        |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------|
| SCCPCH                                                                                                              | Modulation                           | QPSK                                                                   |
|                                                                                                                     | Codes and time slots / radio frame   | SF 16 x 4 codes x 2 time slots<br>(alt. SF16 x 2 codes x 2 time slots) |
|                                                                                                                     | Max. Number of data bits/radio frame | 688 bits (alt. 344 bits)                                               |
|                                                                                                                     | TFCI code word / radio frame         | 16 bits (alt. 8 bits)                                                  |
|                                                                                                                     | TPC / radio frame                    | 0 bits                                                                 |
|                                                                                                                     | SS / radio frame                     | 0 bits                                                                 |
|                                                                                                                     | Puncturing Limit                     | 0.88                                                                   |
| NOTE: Alt. Puncturing Limit applies when alt. TFCS and alt. codes and time slots / radio frame are both configured. |                                      |                                                                        |

6.11.5.4.4.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.3.1 Transport channel parameters

6.11.5.4.4.3.1.1 Transport channel parameters of SRB for Interactive/Background 32 kbps RAB

See clause 6.11.5.4.4.2.1.1.

6.11.5.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.11.5.4.4.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.3.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 18(alt.26)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| TFCS      | (SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH, 32 kbps RAB) =<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF0, TF2), (TF1, TF0, TF2), (TF0, TF1, TF2), (TF1, TF1, TF2), (TF0, TF2, TF2), (TF1, TF2, TF2)<br>(alt.(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0), (TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1), (TF0, TF0, TF2), (TF1, TF0, TF2), (TF0, TF1, TF2), (TF1, TF1, TF2), (TF0, TF2, TF2), (TF1, TF2, TF2)) |

#### 6.11.5.4.4.3.2 Physical channel parameters

|                                                                                                                     |                                      |                                                                       |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------|
| S-CCPCH                                                                                                             | Modulation                           | QPSK                                                                  |
|                                                                                                                     | Codes and time slots / radio frame   | SF16 x 5 codes x 2 time slots<br>(alt. SF16 x 3 codes x 2 time slots) |
|                                                                                                                     | Max. Number of data bits/radio frame | 1 744 bits (alt. 1 040 bits)                                          |
|                                                                                                                     | TFCI code word / radio frame         | 16 bits                                                               |
|                                                                                                                     | TPC / radio frame                    | 0 bits                                                                |
|                                                                                                                     | SS / radio frame                     | 0 bits                                                                |
|                                                                                                                     | Puncturing Limit                     | 0.48 (alt. 0.52)                                                      |
| NOTE: Alt. Puncturing Limit applies when alt. TFCS and alt. codes and time slots / radio frame are both configured. |                                      |                                                                       |

#### 6.11.5.4.4.3a SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

##### 6.11.5.4.4.3a.1 Transport channel parameters

##### 6.11.5.4.4.3a.1.1 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

##### 6.11.5.4.4.3a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

##### 6.11.5.4.4.3a.1.3 TFCS

See clause 6.10.3.4.4.3a.1.3.

#### 6.11.5.4.4.3a.2 Physical channel parameters

|                                                                                                  |                                      |                                                                        |
|--------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------|
| SCCPCH                                                                                           | Modulation                           | QPSK                                                                   |
|                                                                                                  | Codes and time slots / radio frame   | SF 16 x 4 codes x 2 time slots<br>(alt. SF16 x 2 codes x 2 time slots) |
|                                                                                                  | Max. Number of data bits/radio frame | 688 bits (alt. 336 bits)                                               |
|                                                                                                  | TFCI code word / radio frame         | 16 bits                                                                |
|                                                                                                  | TPC / radio frame                    | 0 bits                                                                 |
|                                                                                                  | SS / radio frame                     | 0 bits                                                                 |
|                                                                                                  | Puncturing Limit                     | 0.60 (alt. 0.52)                                                       |
| NOTE: Alt. applies when alts for SRB for PCCH and SRBs for CCCH/ DCCH/ BCCH are both configured. |                                      |                                                                        |

#### 6.11.5.4.4.4 RB for CTCH + SRB for CCCH + SRB for BCCH

##### 6.11.5.4.4.4.1 Transport channel parameters

##### 6.11.5.4.4.4.1.1 Transport channel parameters of RB for CTCH

See clause 6.10.3.4.4.4.1.1.

##### 6.11.5.4.4.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

|              |                                                     |           |                                |        |
|--------------|-----------------------------------------------------|-----------|--------------------------------|--------|
| Higher layer | RAB/signalling RB                                   |           | SRB#0                          | SRB#5  |
|              | User of Radio Bearer                                |           | RRC                            | RRC    |
| RLC          | Logical channel type                                |           | CCCH                           | BCCH   |
|              | RLC mode                                            |           | UM                             | TM     |
|              | Payload sizes, bit                                  |           | 160                            | 168    |
|              | Max data rate, bps                                  |           | 16 000                         | 16 800 |
|              | AMD/UMD/TrD PDU header, bit                         |           | 8                              | 0      |
| MAC          | MAC header, bit                                     |           | 3                              | 3      |
|              | MAC multiplexing                                    |           | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                           |           | FACH                           |        |
|              | TB sizes, bit                                       |           | 171                            |        |
|              | TFS                                                 | TF0, bits | 0x171                          |        |
|              |                                                     | TF1, bits | 1x171                          |        |
|              |                                                     | TF2, bits | 2x171                          |        |
|              | TTI, ms                                             |           | 20                             |        |
|              | Coding type                                         |           | CC 1/3                         |        |
|              | CRC, bit                                            |           | 16                             |        |
|              | Max number of bits/TTI before rate matching         |           | 1 146                          |        |
|              | Max number of bits/radio frame before rate matching |           | 573                            |        |
|              | RM attribute                                        |           | 200 to 240                     |        |

## 6.11.5.4.4.1.3 TFCS

See clause 6.10.3.4.4.1.3.

## 6.11.5.4.4.2 Physical channel parameters

|        |                                      |  |                                |
|--------|--------------------------------------|--|--------------------------------|
| SCCPCH | Modulation                           |  | QPSK                           |
|        | Codes and time slots / radio frame   |  | SF 16 x 4 codes x 2 time slots |
|        | Max. Number of data bits/radio frame |  | 688 bits                       |
|        | TFCl code word / radio frame         |  | 16 bits                        |
|        | TPC / radio frame                    |  | 0 bits                         |
|        | SS / radio frame                     |  | 0 bits                         |
|        | Puncturing Limit                     |  | 0.52                           |

## 6.11.5.4.4.5 64.8kbps RB for MTCH with 40 ms TTI

## 6.11.5.4.4.5.1 Transport channel parameters

## 6.11.5.4.4.5.1.1 Transport channel parameters for 64 kbps PS RAB

|              |                                             |           |       |
|--------------|---------------------------------------------|-----------|-------|
| Higher layer | RAB/signalling RB                           |           | RAB   |
|              | User of Radio Bearer                        |           | MBMS  |
| RLC          | Logical channel type                        |           | MTCH  |
|              | RLC mode                                    |           | UM    |
|              | Payload sizes, bit                          |           | 648   |
|              | Max data rate, bps                          |           | 64800 |
|              | UMD PDU header, bit                         |           | 8     |
| MAC          | MAC header, bit                             |           | 9     |
|              | MAC multiplexing                            |           | N/A   |
| Layer 1      | TrCH type                                   |           | FACH  |
|              | TB sizes, bit                               |           | 665   |
|              | TFS                                         | TF0, bits | 0x665 |
|              |                                             | TF1, bits | 1x665 |
|              |                                             | TF2, bits | 2x665 |
|              |                                             | TF3, bits | 3x665 |
|              |                                             | TF4, bits | 4x665 |
|              | TTI, ms                                     |           | 40    |
|              | Coding type                                 |           | TC    |
|              | CRC, bit                                    |           | 16    |
|              | Max number of bits/TTI before rate matching |           | 8184  |
|              | RM attribute                                |           | 160   |

## 6.11.5.4.4.5.1.2 TFCS

|           |                                      |
|-----------|--------------------------------------|
| TFCS size | 5                                    |
| TFCS      | 64 kbps RAB =TF0, TF1, TF2, TF3, TF4 |

## 6.11.5.4.4.5.2 Physical channel parameters

|        |                                      |                                |
|--------|--------------------------------------|--------------------------------|
| SCCPCH | Modulation                           | QPSK                           |
|        | Codes and time slots / radio frame   | SF 16 x 8 codes x 2 time slots |
|        | Max. Number of data bits/radio frame | 1392 bits                      |
|        | TFCI code word / radio frame         | 16 bits                        |
|        | TPC / radio frame                    | 0 bits                         |
|        | SS / radio frame                     | 0 bits                         |
|        | Puncturing Limit                     | 0.68                           |

## 6.11.5.4.4.6 129.6 kbps RB for MTCH with 40 ms TTI

## 6.11.5.4.4.6.1 Transport channel parameters

## 6.11.5.4.4.6.1.1 Transport channel parameters for 128 kbps PS RAB

|              |                                             |           |        |
|--------------|---------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                           |           | RAB    |
|              | User of Radio Bearer                        |           | MBMS   |
| RLC          | Logical channel type                        |           | MTCH   |
|              | RLC mode                                    |           | UM     |
|              | Payload sizes, bit                          |           | 648    |
|              | Max data rate, bps                          |           | 129600 |
|              | UMD PDU header, bit                         |           | 8      |
| MAC          | MAC header, bit                             |           | 9      |
|              | MAC multiplexing                            |           | N/A    |
| Layer 1      | TrCH type                                   |           | FACH   |
|              | TB sizes, bit                               |           | 665    |
|              | TFS                                         | TF0, bits | 0x665  |
|              |                                             | TF1, bits | 1x665  |
|              |                                             | TF2, bits | 2x665  |
|              |                                             | TF3, bits | 3x665  |
|              |                                             | TF4, bits | 4x665  |
|              |                                             | TF5, bits | 5x665  |
|              |                                             | TF6, bits | 6x665  |
|              |                                             | TF7, bits | 7x665  |
|              |                                             | TF8, bits | 8x665  |
|              | TTI, ms                                     |           | 40     |
|              | Coding type                                 |           | TC     |
|              | CRC, bit                                    |           | 16     |
|              | Max number of bits/TTI before rate matching |           | 16368  |
|              | RM attribute                                |           | 160    |

## 6.11.5.4.4.6.1.2 TFCS

|           |                                                           |
|-----------|-----------------------------------------------------------|
| TFCS size | 9                                                         |
| TFCS      | 128 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8 |

## 6.11.5.4.4.6.2 Physical channel parameters

|        |                                      |                                 |
|--------|--------------------------------------|---------------------------------|
| SCCPCH | Modulation                           | QPSK                            |
|        | Codes and time slots / radio frame   | SF 16 x 16 codes x 2 time slots |
|        | Max. Number of data bits/radio frame | 2800 bits                       |
|        | TFCI code word / radio frame         | 16 bits                         |
|        | TPC / radio frame                    | 0 bits                          |
|        | SS / radio frame                     | 0 bits                          |
|        | Puncturing Limit                     | 0.68                            |

6.11.5.4.4.7 259.2 kbps RB for MTCH with 40 ms TTI

6.11.5.4.4.7.1 Transport channel parameters

6.11.5.4.4.7.1.1 Transport channel parameters for 256 kbps PS RAB

|              |                                             |            |        |
|--------------|---------------------------------------------|------------|--------|
| Higher layer | RAB/signalling RB                           |            | RAB    |
|              | User of Radio Bearer                        |            | MBMS   |
| RLC          | Logical channel type                        |            | MTCH   |
|              | RLC mode                                    |            | UM     |
|              | Payload sizes, bit                          |            | 648    |
|              | Max data rate, bps                          |            | 259200 |
|              | UMD PDU header, bit                         |            | 8      |
|              |                                             |            |        |
| MAC          | MAC header, bit                             |            | 9      |
|              | MAC multiplexing                            |            | N/A    |
| Layer 1      | TrCH type                                   |            | FACH   |
|              | TB sizes, bit                               |            | 665    |
|              | TFS                                         | TF0, bits  | 0x665  |
|              |                                             | TF1, bits  | 1x665  |
|              |                                             | TF2, bits  | 2x665  |
|              |                                             | TF3, bits  | 3x665  |
|              |                                             | TF4, bits  | 4x665  |
|              |                                             | TF5, bits  | 5x665  |
|              |                                             | TF6, bits  | 6x665  |
|              |                                             | TF7, bits  | 7x665  |
|              |                                             | TF8, bits  | 8x665  |
|              |                                             | TF9, bits  | 9x665  |
|              |                                             | TF10, bits | 10x665 |
|              |                                             | TF11, bits | 11x665 |
|              |                                             | TF12, bits | 12x665 |
|              |                                             | TF13, bits | 13x665 |
|              |                                             | TF14, bits | 14x665 |
|              |                                             | TF15, bits | 15x665 |
|              |                                             | TF16, bits | 16x665 |
|              | TTI, ms                                     |            | 40     |
|              | Coding type                                 |            | TC     |
|              | CRC, bit                                    |            | 16     |
|              | Max number of bits/TTI before rate matching |            | 32724  |
|              | RM attribute                                |            | 160    |

6.11.5.4.4.7.1.2 TFCS

|           |                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------|
| TFCS size | 17                                                                                                       |
| TFCS      | 256 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

6.11.5.4.4.7.2 Physical channel parameters

|        |                                      |                                 |
|--------|--------------------------------------|---------------------------------|
| SCCPCH | Modulation                           | QPSK                            |
|        | Codes and time slots / radio frame   | SF 16 x 16 codes x 4 time slots |
|        | Max. Number of data bits/radio frame | 5616 bits                       |
|        | TFCI code word / radio frame         | 16 bits                         |
|        | TPC / radio frame                    | 0 bits                          |
|        | SS / radio frame                     | 0 bits                          |
|        | Puncturing Limit                     | 0.68                            |

## 6.11.5.4.4.8 7.6 kbps signalling RB for MCCH

## 6.11.5.4.4.8.1 Transport channel parameters

See clause 6.10.2.4.3.8.1.1.

## 6.11.5.4.4.8.1.2 TFCS

See clause 6.10.2.4.3.8.1.2.

## 6.11.5.4.4.8.2 Physical channel parameters

|         |                                      |                               |
|---------|--------------------------------------|-------------------------------|
| S-CCPCH | Modulation                           | QPSK                          |
|         | Codes and time slots / radio frame   | SF16 x 1 codes x 2 time slots |
|         | Max. Number of data bits/radio frame | 270                           |
|         | TFCI code word / radio frame         | 2 bits                        |
|         | TPC / radio frame                    | 0 bits                        |
|         | SS / radio frame                     | 0 bits                        |
|         | Puncturing Limit                     | 1                             |

## 6.11.5.4.4.9 128kbps RB for MBSFN MTCH with 40 ms TTI

## 6.11.5.4.4.9.1 Transport channel parameters

## 6.11.5.4.4.9.1.1 Transport channel parameters for 124.4 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 4976   |
|              | Max data rate, bps                                  |           | 128000 |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 9      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 2561   |
|              | TFS                                                 | TF0, bits | 0x2561 |
|              |                                                     | TF1, bits | 2x2561 |
|              | TTI, ms                                             |           | 40     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 15486  |
|              | Max number of bits/radio frame before rate matching |           | 3872   |
|              | RM attribute                                        |           | 128    |

## 6.11.5.4.4.9.1.2 TFCS

|           |                             |
|-----------|-----------------------------|
| TFCS size | 3                           |
| TFCS      | 124 kbps RAB =TF0, TF1, TF2 |

## 6.11.5.4.4.9.2 Physical channel parameters

|         |                                      |                              |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | TPC / radio frame                    | 0 bits                       |
|         | Codes and time slots / radio frame   | SF16 x 8 codes x 2 time slot |
|         | Modulation                           | QPSK                         |
|         | Max. Number of data bits/radio frame | 30566 bits                   |
|         | TFCI code word / radio frame         | 16                           |
|         | Puncturing limit                     | 0.76                         |



6.11.5.4.4.10 192 kbps RB for MBSFN MTCH with 40 ms TTI

6.11.5.4.4.10.1 Transport channel parameters

6.11.5.4.4.10.1.1 Transport channel parameters for 192 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 4272   |
|              | Max data rate, bps                                  |           | 192000 |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 9      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 2561   |
|              | TFS                                                 | TF0, bits | 0x2561 |
|              |                                                     | TF1, bits | 3x2561 |
|              | TTI, ms                                             |           | 40     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 23220  |
|              | Max number of bits/radio frame before rate matching |           | 5805   |
|              | RM attribute                                        |           | 128    |

6.11.5.4.4.10.1.1 TFCS

|           |                             |
|-----------|-----------------------------|
| TFCS size | 3                           |
| TFCS      | 320 kbps RAB =TF0, TF1, TF2 |

6.11.5.4.4.10.2 Physical channel parameters

|         |                                      |                              |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | TPC / radio frame                    | 0 bits                       |
|         | Codes and time slots / radio frame   | SF16 x 8 codes x 2 time slot |
|         | Modulation                           | QPSK                         |
|         | Max. Number of data bits/radio frame | 3056 bits                    |
|         | TFCI code word / radio frame         | 16                           |
|         | Puncturing limit                     | 0.52                         |

6.11.5.4.4.11 384 kbps RB for MBSFN MTCH with 40 ms TTI

6.11.5.4.4.11.1 Transport channel parameters

6.11.5.4.4.11.1.1 Transport channel parameters for 384 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 4976   |
|              | Max data rate, bps                                  |           | 384000 |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 9      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 2561   |
|              | TFS                                                 | TF0, bits | 0x2561 |
|              |                                                     | TF1, bits | 6x2561 |
|              |                                                     |           |        |
|              | TTI, ms                                             |           | 40     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 46440  |
|              | Max number of bits/radio frame before rate matching |           | 11610  |
|              | RM attribute                                        |           | 128    |

6.11.5.4.4.11.1.2 TFCS

|           |                             |
|-----------|-----------------------------|
| TFCS size | 3                           |
| TFCS      | 496 kbps RAB =TF0, TF1, TF2 |

6.11.5.4.4.11.2 Physical channel parameters

|         |                                      |                              |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | TPC / radio frame                    | 0 bits                       |
|         | Codes and time slots / radio frame   | SF1 x 1 codes x 2 time slots |
|         | Modulation                           | 16QAM                        |
|         | Max. Number of data bits/radio frame | 12272 bits                   |
|         | TFCI code word / radio frame         | 16                           |
|         | Puncturing limit                     | 1                            |

## 6.11.5.4.4.12 7.2 kbps signalling RB for MBSFN MCCH

## 6.11.5.4.4.12.1 Transport channel parameters

## 6.11.5.4.4.12.1.1 Transport channel parameters for 7.2 kbps signalling RB for MCCH

|              |                                                     |           |      |
|--------------|-----------------------------------------------------|-----------|------|
| Higher layer | RAB/signalling RB                                   |           | SRB  |
|              | User of Radio Bearer                                |           | MBMS |
| RLC          | Logical channel type                                |           | MCCH |
|              | RLC mode                                            |           | UM   |
|              | Payload sizes, bit                                  |           | 72   |
|              | Max data rate, bps                                  |           | 7200 |
|              | UMD PDU header, bit                                 |           | 8    |
| MAC          | MAC header, bit                                     |           | -    |
|              | MAC multiplexing                                    |           | N/A  |
| Layer 1      | TrCH type                                           |           | FACH |
|              | TB sizes, bit                                       |           | 80   |
|              | TFS                                                 | TF0, bits | 0x80 |
|              |                                                     | TF1, bits | 1x80 |
|              |                                                     | TF2, bits | 2x80 |
|              |                                                     | TF3, bits | 4x80 |
|              | TTI, ms                                             |           | 40   |
|              | Coding type                                         |           | TC   |
|              | CRC, bit                                            |           | 16   |
|              | Max number of bits/TTI after channel coding         |           | 1164 |
|              | Max number of bits/radio frame before rate matching |           | 291  |
|              | RM attribute                                        |           | 128  |

## 6.11.5.4.4.12.1.2 TFCS

|           |                              |
|-----------|------------------------------|
| TFCS size | 4                            |
| TFCS      | MBMS SRB =TF0, TF1, TF2, TF3 |

## 6.11.5.4.4.12.2 Physical channel parameters

|         |                                      |                             |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | TPC / radio frame                    | 0 bits                      |
|         | Codes and time slots / radio frame   | SF16 x 1 code x 1 time slot |
|         | Modulation                           | QPSK                        |
|         | Max. Number of data bits/radio frame | 248 bits                    |
|         | TFCI code word / radio frame         | 16                          |
|         | Puncturing limit                     | 0.84                        |

6.11.5.4.4.13 8kbps RB for MBSFN MTCH with 40 ms TTI

6.11.5.4.4.13.1 Transport channel parameters

6.11.5.4.4.13.1.1 Transport channel parameters for 8kbps PS RAB

|              |                                                     |           |       |
|--------------|-----------------------------------------------------|-----------|-------|
| Higher layer | RAB/signalling RB                                   |           | RAB   |
|              | User of Radio Bearer                                |           | MBMS  |
| RLC          | Logical channel type                                |           | MTCH  |
|              | RLC mode                                            |           | UM    |
|              | Payload sizes, bit                                  |           | 328   |
|              | Max data rate, bps                                  |           | 8200  |
|              | UMD PDU header, bit                                 |           | 8     |
| MAC          | MAC header, bit                                     |           | 9     |
|              | MAC multiplexing                                    |           | N/A   |
| Layer 1      | TrCH type                                           |           | FACH  |
|              | TB sizes, bit                                       |           | 345   |
|              | TFS                                                 | TF0, bits | 0x345 |
|              |                                                     | TF1, bits | 1x345 |
|              | TTI, ms                                             |           | 40    |
|              | Coding type                                         |           | TC    |
|              | CRC, bit                                            |           | 16    |
|              | Max number of bits/TTI after channel coding         |           | 1095  |
|              | Max number of bits/radio frame before rate matching |           | 274   |
|              | RM attribute                                        |           | 128   |

6.11.5.4.4.13.1.2 TFCS

|           |                      |
|-----------|----------------------|
| TFCS size | 2                    |
| TFCS      | 8 kbps RAB =TF0, TF1 |

6.11.5.4.4.13.2 Physical channel parameters

|         |                                      |                              |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | TPC / radio frame                    | 0 bits                       |
|         | Codes and time slots / radio frame   | SF16 x 1 codes x 1 time slot |
|         | Modulation                           | QPSK                         |
|         | Max. Number of data bits/radio frame | 248 bits                     |
|         | TFCI code word / radio frame         | 16                           |
|         | Puncturing limit                     | 0.84                         |

## 6.11.5.4.4.14 64kbps RB for MBSFN MTCH with 40 ms TTI

## 6.11.5.4.4.14.1 Transport channel parameters

## 6.11.5.4.4.14.1.1 Transport channel parameters for 64 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 1336   |
|              | Max data rate, bps                                  |           | 66800  |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 9      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 1353   |
|              | TFS                                                 | TF0, bits | 0x1353 |
|              |                                                     | TF1, bits | 1x1353 |
|              | TTI, ms                                             |           | 20     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 4119   |
|              | Max number of bits/radio frame before rate matching |           | 2060   |
|              | RM attribute                                        |           | 128    |

## 6.11.5.4.4.14.1.1 TFCS

|           |                        |
|-----------|------------------------|
| TFCS size | 2                      |
| TFCS      | 64 kbps RAB = TF0, TF1 |

## 6.11.5.4.4.14.2 Physical channel parameters

|         |                                      |                              |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | TPC / radio frame                    | 0 bits                       |
|         | Codes and time slots / radio frame   | SF16 x 8 codes x 1 time slot |
|         | Modulation                           | QPSK                         |
|         | Max. Number of data bits/radio frame | 2096 bits                    |
|         | TFCI code word / radio frame         | 16                           |
|         | Puncturing limit                     | 1                            |

## 6.11.5.4.5 Combinations on PRACH

## 6.11.5.4.5.1 SRB for CCCH + SRBs for DCCH

## 6.11.5.4.5.1.1 Transport channel parameters

## 6.11.5.4.5.1.1.1 Transport channel parameter for SRB for CCCH, SRBs for DCCH

See clause 6.10.3.4.5.1.1.1.

## 6.11.5.4.5.1.1.2 TFCS

See clause 6.10.3.4.5.1.1.2.

## 6.11.5.4.5.1.2 Physical channel parameters

|       |                                      |                              |
|-------|--------------------------------------|------------------------------|
| PRACH | Modulation                           | QPSK                         |
|       | Codes and time slots / radio frame   | SF 8 x 1 code x 2 time slots |
|       | Max. Number of data bits/radio frame | 352 bits                     |
|       | TPC / radio frame                    | 0 bits                       |
|       | SS / radio frame                     | 0 bits                       |
|       | Puncturing Limit                     | 0.88                         |

6.11.5.4.5.2 Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH

6.11.5.4.5.2.1 Transport channel parameters

6.11.5.4.5.2.1.1 Transport channel parameters for Interactive or background / 12.8 kbps / PS RAB + SRB for CCCH + SRBs for DCCH

| Higher layer | RAB/signalling RB                                    | RAB                               | SRB#0  | SRB#1  | SRB#2  | SRB#3                   | SRB#4                  |
|--------------|------------------------------------------------------|-----------------------------------|--------|--------|--------|-------------------------|------------------------|
|              | User of Radio Bearer                                 | Interactive/<br>Background<br>RAB | RRC    | RRC    | RRC    | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC          | Logical channel type                                 | DTCH                              | CCCH   | DCCH   | DCCH   | DCCH                    | DCCH                   |
|              | RLC mode                                             | AM                                | TM     | UM     | AM     | AM                      | AM                     |
|              | Payload sizes, bit                                   | 128                               | 168    | 136    | 128    | 128                     | 128                    |
|              | Max data rate, bps                                   | 12 800                            | 16 800 | 13 600 | 12 800 | 12 800                  | 12 800                 |
|              | AMD/UMD/TrD PDU header, bit                          | 16                                | 0      | 8      | 16     | 16                      | 16                     |
| MAC          | MAC header, bit                                      | 26                                | 2      | 26     | 26     | 26                      | 26                     |
|              | MAC multiplexing                                     | 6 logical channel multiplexing    |        |        |        |                         |                        |
| Layer 1      | TrCH type                                            |                                   | RACH   |        |        |                         |                        |
|              | TB sizes, bit                                        |                                   | 170    |        |        |                         |                        |
|              | TFS                                                  | TF0, bits                         | 1x170  |        |        |                         |                        |
|              | TTI, ms                                              |                                   | 10     |        |        |                         |                        |
|              | Coding type                                          |                                   | CC 1/2 |        |        |                         |                        |
|              | CRC, bit                                             |                                   | 16     |        |        |                         |                        |
|              | Max number of bits/TTI after channel coding          |                                   | 388    |        |        |                         |                        |
|              | Max number of bits/ Radio frame before rate matching |                                   | 388    |        |        |                         |                        |

6.11.5.4.5.2.1.2 TFCS

|           |                                                         |
|-----------|---------------------------------------------------------|
| TFCS size | 1                                                       |
| TFCS      | 12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH = (TF0) |

6.11.5.4.5.2.2 Physical channel parameters

See clause 6.11.5.4.5.1.2.

6.11.5.4.5.3 Interactive/Background 12.8 kbps PS RAB + Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.11.5.4.5.3.1 Transport channel parameters

6.11.5.4.5.3.1.1 Transport channel parameters for Interactive or background / 12.8 kbps / PS RAB + Interactive or background / 12.8 kbps / PS RAB + SRB for CCCH + SRBs for DCCH

| Higher layer | RAB/signalling RB           | RAB                               | RAB                               | SRB#0  | SRB#1  | SRB#2  | SRB#3               | SRB#4              |
|--------------|-----------------------------|-----------------------------------|-----------------------------------|--------|--------|--------|---------------------|--------------------|
|              | User of Radio Bearer        | Interactive/<br>Background<br>RAB | Interactive/<br>Background<br>RAB | RRC    | RRC    | RRC    | NAS_DT<br>High_prio | NAS_DT<br>Low_prio |
| RLC          | Logical channel type        | DTCH                              | DTCH                              | CCCH   | DCCH   | DCCH   | DCCH                | DCCH               |
|              | RLC mode                    | AM                                | AM                                | TM     | UM     | AM     | AM                  | AM                 |
|              | Payload sizes, bit          | 128                               | 128                               | 168    | 136    | 128    | 128                 | 128                |
|              | Max data rate, bps          | 12 800                            | 12 800                            | 16 800 | 13 600 | 12 800 | 12 800              | 12 800             |
|              | AMD/UMD/TrD PDU header, bit | 16                                | 16                                | 0      | 8      | 16     | 16                  | 16                 |
| MAC          | MAC header, bit             | 26                                | 26                                | 2      | 26     | 26     | 26                  | 26                 |
|              | MAC multiplexing            | 7 logical channel multiplexing    |                                   |        |        |        |                     |                    |
| Layer 1      | TrCH type                   | RACH                              |                                   |        |        |        |                     |                    |
|              | TB sizes, bit               |                                   | 170                               |        |        |        |                     |                    |
|              | TFS                         | TF0, bits                         | 1x170                             |        |        |        |                     |                    |
|              | TTI, ms                     |                                   | 10                                |        |        |        |                     |                    |
|              | Coding type                 |                                   | CC ½                              |        |        |        |                     |                    |
|              | CRC, bit                    |                                   | 16                                |        |        |        |                     |                    |

|              |                                                            |                                   |                                   |       |       |       |                     |                    |
|--------------|------------------------------------------------------------|-----------------------------------|-----------------------------------|-------|-------|-------|---------------------|--------------------|
| Higher layer | RAB/signalling RB                                          | RAB                               | RAB                               | SRB#0 | SRB#1 | SRB#2 | SRB#3               | SRB#4              |
|              | User of Radio Bearer                                       | Interactive/<br>Background<br>RAB | Interactive/<br>Background<br>RAB | RRC   | RRC   | RRC   | NAS_DT<br>High prio | NAS_DT<br>Low prio |
|              | Max number of bits/TTI<br>after channel coding             | 388                               |                                   |       |       |       |                     |                    |
|              | Max number of bits/<br>Radio frame before rate<br>matching | 388                               |                                   |       |       |       |                     |                    |

## 6.11.5.4.5.3.1.2 TFCS

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| TFCS size | 1                                                                          |
| TFCS      | 12.8 kbps PS RAB + 12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH = (TF0) |

## 6.11.5.4.5.3.2 Physical channel parameters

See clause 6.11.5.4.5.1.2.

## 6.11.5.4.6 Combinations on DPCH and HS-PDSCH

6.11.5.4.6.1 Interactive or background / UL:8 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.5.4.6.1.1 Uplink

See clause 6.11.5.4.1.23a.1.

## 6.11.5.4.6.1.2 Downlink

## 6.11.5.4.6.1.2.1 Transport channel parameters

## 6.11.5.4.6.1.2.1.1 Transport channel parameters for HS-DSCH

## 6.11.5.4.6.1.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

|              |                                          | Alt 1<br>Fixed RLC +<br>MAC-hs<br>(Rel-5 and later<br>releases)<br>NOTE2 | Alt 2<br>Fixed RLC +<br>MAC-ehs<br>(Rel-8 and<br>later releases)<br>NOTE2 | Alt 3<br>Flexible RLC +<br>MAC-ehs<br>(Rel-8 and later<br>releases)<br>NOTE2 |
|--------------|------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Higher layer | RAB/Signalling RB                        | RAB                                                                      |                                                                           |                                                                              |
| RLC          | Logical channel type                     | DTCH                                                                     |                                                                           |                                                                              |
|              | RLC mode                                 | AM                                                                       |                                                                           |                                                                              |
|              | Payload sizes, bit                       | 320 (alt. 640)                                                           | 320 (alt. 640)                                                            | Flexible up to<br>12000                                                      |
|              | Max data rate, bps                       | depends on UE category<br>NOTE 1                                         |                                                                           |                                                                              |
|              | AMD PDU header, bit                      | 16                                                                       | 16                                                                        | 16                                                                           |
| MAC          | MAC-d header, bit                        | 0                                                                        | 0                                                                         | 0                                                                            |
|              | MAC multiplexing                         | N/A                                                                      | N/A                                                                       | N/A                                                                          |
|              | MAC-d PDU size, bit                      | 336 (alt. 656)                                                           | 336 (alt. 656)                                                            | Flexible                                                                     |
|              | MAC-hs Type                              | MAC-hs                                                                   | MAC-ehs                                                                   | MAC-ehs                                                                      |
|              | MAC-hs/MAC-ehs header<br>fixed part, bit | 21                                                                       | 24                                                                        | 24                                                                           |
| Layer 1      | TrCH type                                | HS-DSCH                                                                  | HS-DSCH                                                                   | HS-DSCH                                                                      |
|              | TTI                                      | 5 ms                                                                     | 5 ms                                                                      | 5 ms                                                                         |
|              | Coding type                              | TC                                                                       | TC                                                                        | TC                                                                           |
|              | CRC, bit                                 | 24                                                                       | 24                                                                        | 24                                                                           |

|                                                                                                                                                                                                                                                                                                                                 |                               |             |                    |                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|--------------------|--------------------|
|                                                                                                                                                                                                                                                                                                                                 | Applicable modulation schemes | QPSK, 16QAM | QPSK, 16QAM, 64QAM | QPSK, 16QAM, 64QAM |
|                                                                                                                                                                                                                                                                                                                                 | Applicable with MIMO          | No          | Yes                | Yes                |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see 3GPP TS 25.321 [38]).                                                                                                                                                                |                               |             |                    |                    |
| NOTE 2: Alternative 1 is for Rel-5 and later releases. Alternative 2 or 3 is for Rel-8 and later releases. Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternative 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case. |                               |             |                    |                    |

#### 6.11.5.4.6.1.2.1.2 Transport channel parameters for DCH

##### 6.11.5.4.6.1.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

##### 6.11.5.4.6.1.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

#### 6.11.5.4.6.1.2.2 Physical channel parameters

##### 6.11.5.4.6.1.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

##### 6.11.5.4.6.1.2.2.2 Physical channel parameters on HS-PDSCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE HS-DSCH Physical Layer category 1(Rel-5 and later releases; QPSK):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 560k bps, (alt. 280 kbps)         |

UE HS-DSCH Physical Layer category 2(Rel-5 and later releases; QPSK):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 560kbps                           |

UE HS-DSCH Physical Layer category 3(Rel-5 and later releases; QPSK):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 560k bps                          |

UE HS-DSCH Physical Layer category 4(Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.1 Mbps, (alt. 600 kbps)         |

UE HS-DSCH Physical Layer category 5(Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.1 Mbps                          |



UE HS-DSCH Physical Layer category 6(Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.1 Mbps                          |

UE HS-DSCH Physical Layer category 7(Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.6 Mbps, (alt. 800kbps)          |

UE HS-DSCH Physical Layer category 8(Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.6 Mbps                          |

UE HS-DSCH Physical Layer category 9(Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.6 Mbps                          |

UE HS-DSCH Physical Layer category 10(Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 2.2 Mbps, (alt. 1.0 Mbps)         |

UE HS-DSCH Physical Layer category 11(Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 2.2 Mbps                          |

UE HS-DSCH Physical Layer category 12(Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 2.2 Mbps                          |

UE HS-DSCH Physical Layer category 13(Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 2.8 Mbps, (alt. 1.4 Mbps)         |

UE HS-DSCH Physical Layer category 14(Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 2.8 Mbps                          |

UE HS-DSCH Physical Layer category 15(Rel-5 and later releases; QPSK or 16QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |

|  |               |          |
|--|---------------|----------|
|  | Max Data Rate | 2.8 Mbps |
|--|---------------|----------|

UE HS-DSCH Physical Layer category 16(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 3.2 Mbps, (alt. 1.6 Mbps)         |

UE HS-DSCH Physical Layer category 17(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 3.2 Mbps                          |

UE HS-DSCH Physical Layer category 18(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 3.2 Mbps                          |

UE HS-DSCH Physical Layer category 19(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 4.2 Mbps, (alt. 2.1 Mbps)         |

UE HS-DSCH Physical Layer category 20(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 4.2Mbps                           |

UE HS-DSCH Physical Layer category 21(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 4.2Mbps                           |

UE HS-DSCH Physical Layer category 22(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 4.2 Mbps, (alt. 2.1 Mbps)         |

UE HS-DSCH Physical Layer category 23(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 4.2Mbps                           |

UE HS-DSCH Physical Layer category 24(Rel-8 and later releases; QPSK ,16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 4.2Mbps                           |

UE HS-DSCH Physical Layer category 25(Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 16                                |
|          | Process memory size | Split equally among all processes |

|  |               |         |
|--|---------------|---------|
|  | Max Data Rate | 3.2Mbps |
|--|---------------|---------|

UE HS-DSCH Physical Layer category 26(Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 16                                |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 4.2Mbps                           |

UE HS-DSCH Physical Layer category 27(Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 16                                |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 5.4Mbps                           |

UE HS-DSCH Physical Layer category 28(Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 16                                |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 4.8Mbps                           |

UE HS-DSCH Physical Layer category 29(Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 16                                |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 6.4Mbps                           |

UE HS-DSCH Physical Layer category 30(Rel-8 and later releases; MIMO + QPSK, 16QAM or 64QAM):

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 16                                |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 8.0Mbps                           |

6.11.5.4.6.1a Interactive or background / UL:8 (multiframe) DL: [max bit rate depending on UE category] / PS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH (multiframe) (REL-5)

6.11.5.4.6.1a.1 Uplink

6.11.5.4.6.1a.1.1 Transport channel parameters

6.11.5.4.6.1a.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps (multiframe) / PS RAB

|              |                                                     |           |                    |
|--------------|-----------------------------------------------------|-----------|--------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                |
| RLC          | Logical channel type                                |           | DTCH               |
|              | RLC mode                                            |           | AM                 |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)     |
|              | Max data rate, bps                                  |           | 8 000              |
|              | AMD PDU header, bit                                 |           | 16                 |
| MAC          | MAC header, bit                                     |           | 0                  |
|              | MAC multiplexing                                    |           | N/A                |
| Layer 1      | TrCH type                                           |           | DCH                |
|              | TB sizes, bit                                       |           | 336 (alt. 144)     |
|              | TFS                                                 | TF0, bits | 0x336 (alt. 0x144) |
|              |                                                     | TF1, bits | 1x336 (alt. 1x144) |
|              |                                                     | TF2, bits | 2x336 (alt. 5x144) |
|              | TTI, ms                                             |           | 20                 |
|              | Coding type                                         |           | TC                 |
|              | CRC, bit                                            |           | 16                 |
|              | Max number of bits/TTI after channel coding         |           | 2 124 (alt. 2 412) |
|              | Max number of bits/radio frame before rate matching |           | 1 062 (alt. 1 206) |
|              | RM attribute                                        |           | 135 to 175         |

#### 6.11.5.4.6.1a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH(multiframe)

See clause 6.11.5.4.1.2a.1.1.1.

#### 6.11.5.4.6.1a.1.1.3 TFCS

See clause 6.10.2.4.1.23d.1.1.3.

#### 6.11.5.4.6.1a.1.2 Physical channel parameters

|             |                                      |                              |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation                           | QPSK                         |
|             | Codes and time slots / radio frame   | SF 2 x 1 code x 2 time slots |
|             | Max. Number of data bits/radio frame | 680bits                      |
|             | TFPI code word / radio frame         | 16 bits                      |
|             | TPC / radio frame                    | 2x2 bits                     |
|             | SS / radio frame                     | 2x2 bits                     |
|             | Repetition period                    | 8                            |
|             | Repetition length                    | 2                            |
|             | Puncturing limit                     | 0.80 (alt. 0.72)             |

#### 6.11.5.4.6.1a.2 Downlink

##### 6.11.5.4.6.1a.2.1 Transport channel parameters

##### 6.11.5.4.6.1a.2.1.1 Transport channel parameters for HS-DSCH

##### 6.11.5.4.6.1a.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

##### 6.11.5.4.6.1a.2.1.2 Transport channel parameters for DCH

##### 6.11.5.4.6.1a.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH (multiframe)

See clause 6.10.3.4.1.2a.2.1.1.

##### 6.11.5.4.6.1a.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

##### 6.11.5.4.6.1a.2.2 Physical channel parameters

##### 6.11.5.4.6.1a.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2a.2.2.

##### 6.11.5.4.6.1a.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

#### 6.11.5.4.6.1b Interactive or background / UL:8 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (64QAM)

##### 6.11.5.4.6.1b.1 Uplink

See clause 6.11.5.4.1.23a.1.

##### 6.11.5.4.6.1b.2 Downlink

##### 6.11.5.4.6.1b.2.1 Transport channel parameters

##### 6.11.5.4.6.1b.2.1.1 Transport channel parameters for HS-DSCH(64QAM)

6.11.5.4.6.1b.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB(64QAM)

|                                                                                                                                                                                                                                                                                                                                 |                                       | <b>Alt 1<br/>Fixed RLC + MAC-hs<br/>(Rel-5 and later releases)<br/>NOTE2</b> | <b>Alt 2<br/>Fixed RLC + MAC-ehs<br/>(Rel-8 and later releases)<br/>NOTE2</b> | <b>Alt 3<br/>Flexible RLC + MAC-ehs<br/>(Rel-8 and later releases)<br/>NOTE2</b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Higher layer                                                                                                                                                                                                                                                                                                                    | RAB/Signalling RB                     | RAB                                                                          |                                                                               |                                                                                  |
| RLC                                                                                                                                                                                                                                                                                                                             | Logical channel type                  | DTCH                                                                         |                                                                               |                                                                                  |
|                                                                                                                                                                                                                                                                                                                                 | RLC mode                              | AM                                                                           |                                                                               |                                                                                  |
|                                                                                                                                                                                                                                                                                                                                 | Payload sizes, bit                    | 320 (alt. 640)                                                               | 320 (alt. 640)                                                                | Flexible up to 12000                                                             |
|                                                                                                                                                                                                                                                                                                                                 | Max data rate, bps                    | depends on UE category<br>NOTE 1                                             |                                                                               |                                                                                  |
|                                                                                                                                                                                                                                                                                                                                 | AMD PDU header, bit                   | 16                                                                           | 16                                                                            | 16                                                                               |
| MAC                                                                                                                                                                                                                                                                                                                             | MAC-d header, bit                     | 0                                                                            | 0                                                                             | 0                                                                                |
|                                                                                                                                                                                                                                                                                                                                 | MAC multiplexing                      | N/A                                                                          | N/A                                                                           | N/A                                                                              |
|                                                                                                                                                                                                                                                                                                                                 | MAC-d PDU size, bit                   | 336 (alt. 656)                                                               | 336 (alt. 656)                                                                | Flexible                                                                         |
|                                                                                                                                                                                                                                                                                                                                 | MAC-hs Type                           | MAC-hs                                                                       | MAC-ehs                                                                       | MAC-ehs                                                                          |
|                                                                                                                                                                                                                                                                                                                                 | MAC-hs/MAC-ehs header fixed part, bit | 21                                                                           | 24                                                                            | 24                                                                               |
| Layer 1                                                                                                                                                                                                                                                                                                                         | TrCH type                             | HS-DSCH                                                                      | HS-DSCH                                                                       | HS-DSCH                                                                          |
|                                                                                                                                                                                                                                                                                                                                 | TTI                                   | 5 ms                                                                         | 5 ms                                                                          | 5 ms                                                                             |
|                                                                                                                                                                                                                                                                                                                                 | Coding type                           | TC                                                                           | TC                                                                            | TC                                                                               |
|                                                                                                                                                                                                                                                                                                                                 | CRC, bit                              | 24                                                                           | 24                                                                            | 24                                                                               |
|                                                                                                                                                                                                                                                                                                                                 | Applicable modulation schemes         | QPSK, 16QAM                                                                  | QPSK, 16QAM, 64QAM                                                            | QPSK, 16QAM, 64QAM                                                               |
|                                                                                                                                                                                                                                                                                                                                 | Applicable with MIMO                  | No                                                                           | Yes                                                                           | Yes                                                                              |
| NOTE 1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs or MAC-ehs PDU (see 3GPP TS 25.321 [38]).                                                                                                                                                                |                                       |                                                                              |                                                                               |                                                                                  |
| NOTE 2: Alternative 1 is for Rel-5 and later releases. Alternative 2 or 3 is for Rel-8 and later releases. Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternative 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case. |                                       |                                                                              |                                                                               |                                                                                  |

6.11.5.4.6.1b.2.1.2 Transport channel parameters for DCH

6.11.5.4.6.1b.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.11.5.4.6.1b.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.11.5.4.6.1b.2.2 Physical channel parameters

6.11.5.4.6.1b.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.6.1b.2.2.2 Physical channel parameters on HS-PDSCH(64QAM)

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE HS-DSCH Physical Layer category 1:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 560k bps, (alt. 280 kbps)         |

UE HS-DSCH Physical Layer category 2:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 560kbps                           |

UE HS-DSCH Physical Layer category 3:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 560k bps                          |

UE HS-DSCH Physical Layer category 4:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.1 Mbps, (alt. 600 kbps)         |

UE HS-DSCH Physical Layer category 5:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.1 Mbps                          |

UE HS-DSCH Physical Layer category 6:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.1 Mbps                          |

UE HS-DSCH Physical Layer category 7:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.6 Mbps, (alt. 800kbps)          |

UE HS-DSCH Physical Layer category 8:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.6 Mbps                          |

UE HS-DSCH Physical Layer category 9:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 1.6 Mbps                          |

UE HS-DSCH Physical Layer category 10:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 2.2 Mbps, (alt. 1.0 Mbps)         |

UE HS-DSCH Physical Layer category 11:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |

|  |               |          |
|--|---------------|----------|
|  | Max Data Rate | 2.2 Mbps |
|--|---------------|----------|

UE HS-DSCH Physical Layer category 12:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 2.2 Mbps                          |

UE HS-DSCH Physical Layer category 13:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 2.8 Mbps, (alt. 1.4 Mbps)         |

UE HS-DSCH Physical Layer category 14:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 2.8 Mbps                          |

UE HS-DSCH Physical Layer category 15:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 2.8 Mbps                          |

UE HS-DSCH Physical Layer category 16:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 2.4 Mbps, (alt. 1.6 Mbps)         |

UE HS-DSCH Physical Layer category 17:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 2.4 Mbps                          |

UE HS-DSCH Physical Layer category 18:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 2.4 Mbps                          |

UE HS-DSCH Physical Layer category 19:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 3.2 Mbps, (alt. 2.1 Mbps)         |

UE HS-DSCH Physical Layer category 20:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 3.2Mbps                           |

UE HS-DSCH Physical Layer category 21:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 3.2Mbps                           |

UE HS-DSCH Physical Layer category 22:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 4, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 4.2 Mbps, (alt. 2.1 Mbps)         |

UE HS-DSCH Physical Layer category 23:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 6, (alt. 8)                       |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 4.2Mbps                           |

UE HS-DSCH Physical Layer category 24:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 8                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | 4.2Mbps                           |

6.11.5.4.6.2 Interactive or background / UL:16 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

6.11.5.4.6.2.1 Uplink

See clause 6.11.5.4.1.23b.1.

6.11.5.4.6.2.2 Downlink

See clause 6.11.5.4.6.1.2.

6.11.5.4.6.2a Interactive or background / UL:16(multiframe) DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH(multiframe) (REL-5)

6.11.5.4.6.2a.1 Uplink

6.11.5.4.6.2a.1.1 Transport channel parameters

6.11.5.4.6.2a.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB(multiframe)

|              |                                                     |           |                     |
|--------------|-----------------------------------------------------|-----------|---------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                 |
| RLC          | Logical channel type                                |           | DTCH                |
|              | RLC mode                                            |           | AM                  |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)      |
|              | Max data rate, bps                                  |           | 16 000              |
|              | AMD PDU header, bit                                 |           | 16                  |
| MAC          | MAC header, bit                                     |           | 0                   |
|              | MAC multiplexing                                    |           | N/A                 |
| Layer 1      | TrCH type                                           |           | DCH                 |
|              | TB sizes, bit                                       |           | 336 (alt. 144)      |
|              | TFS                                                 | TF0, bits | 0x336 (alt. 0x144)  |
|              |                                                     | TF1, bits | 1x336 (alt. 1x144)  |
|              |                                                     | TF2, bits | 2x336 (alt. 3x144)  |
|              |                                                     | TF3, bits | 3x336 (alt. 7x144)  |
|              |                                                     | TF4, bits | 4x336 (alt. 10x144) |
|              | TTI, ms                                             |           | 20                  |
|              | Coding type                                         |           | TC                  |
|              | CRC, bit                                            |           | 16                  |
|              | Max number of bits/TTI after channel coding         |           | 4 236 (alt. 4 812)  |
|              | Max number of bits/radio frame before rate matching |           | 2 118 (alt. 2 406)  |
|              | RM attribute                                        |           | 130 to 170          |



#### 6.11.5.4.6.2a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH(multiframe)

See clause 6.11.5.4.1.2a.1.1.1.

#### 6.11.5.4.6.2a.1.1.3 TFCS

See clause 6.10.2.4.1.26.1.1.3.

#### 6.11.5.4.6.2a.1.2 Physical channel parameters

| DPCH Uplink                          |  | Physical 1                  | Physical 2                  |
|--------------------------------------|--|-----------------------------|-----------------------------|
| Modulation                           |  | QPSK                        | QPSK                        |
| Codes and time slots / radio frame   |  | SF2 x 1 code x 2 time slots | SF1 x 1 code x 2 time slots |
| Max. Number of data bits/radio frame |  | 1 384 bits                  | 2 792 bits                  |
| TCFI code word / radio frame         |  | 16 bits                     | 16 bits                     |
| TPC / radio frame                    |  | 2x2 bits                    | 2x2 bits                    |
| SS / radio frame                     |  | 2x2 bits                    | 2x2 bits                    |
| Repetition period                    |  | 4                           | 8                           |
| Repetition length                    |  | 1                           | 2                           |
| Puncturing limit                     |  | 0.48 (alt. 0.40)            | 0.96 (alt. 0.84)            |

#### 6.11.5.4.6.2a.2 Downlink

See clause 6.11.5.4.6.1a.2.

#### 6.11.5.4.6.3 Interactive or background / UL:32 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

##### 6.11.5.4.6.3.1 Uplink

See clause 6.10.3.4.1.23c.1.

##### 6.11.5.4.6.3.2 Downlink

See clause 6.11.5.4.6.1.2.

#### 6.11.5.4.6.3a Interactive or background / UL:32(multiframe) DL: [max bit rate depending on UE category] / PS RAB +UL:3.4 DL:3.4 kbps SRBs for DCCH(multiframe) (REL-5)

##### 6.11.5.4.6.3a.1 Uplink

##### 6.11.5.4.6.3a.1.1 Transport channel parameters

##### 6.11.5.4.6.3a.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB(multiframe)

|              |                      |           |                     |
|--------------|----------------------|-----------|---------------------|
| Higher layer | RAB/Signalling RB    |           | RAB                 |
| RLC          | Logical channel type |           | DTCH                |
|              | RLC mode             |           | AM                  |
|              | Payload sizes, bit   |           | 320 (alt. 128)      |
|              | Max data rate, bps   |           | 32 000              |
|              | AMD PDU header, bit  |           | 16                  |
| MAC          | MAC header, bit      |           | 0                   |
|              | MAC multiplexing     |           | N/A                 |
| Layer 1      | TrCH type            |           | DCH                 |
|              | TB sizes, bit        |           | 336 (alt. 144)      |
|              | TFS                  | TF0, bits | 0x336 (alt. 0x144)  |
|              |                      | TF1, bits | 1x336 (alt. 1x144)  |
|              |                      | TF2, bits | 2x336 (alt. 7x144)  |
|              |                      | TF3, bits | 4x336 (alt 14x144)  |
|              |                      | TF4, bits | 8x336 (alt. 20x144) |
|              | TTI, ms              |           | 20                  |
|              | Coding type          |           | TC                  |
|              | CRC, bit             |           | 16                  |

|  |                                                     |                     |
|--|-----------------------------------------------------|---------------------|
|  | Max number of bits/TTI after channel coding         | 8 460 ( alt. 9 612) |
|  | Max number of bits/radio frame before rate matching | 4 230 (alt. 4 806)  |
|  | RM attribute                                        | 120 to 160          |

#### 6.11.5.4.6.3a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH(multiframe)

See clause 6.11.5.4.1.2a.1.1.1.

#### 6.11.5.4.6.3a.1.1.3 TFCS

See clause 6.10.2.4.1.28.1.1.3.

#### 6.11.5.4.6.3a.1.2 Physical channel parameters

|             |                                      |                              |
|-------------|--------------------------------------|------------------------------|
| DPCH Uplink | Modulation                           | QPSK                         |
|             | Codes and time slots / radio frame   | SF1 x 1 codes x 2 time slots |
|             | Max. Number of data bits/radio frame | 2 792 bits                   |
|             | TFCI code word / radio frame         | 16 bits                      |
|             | TPC / radio frame                    | 2x2 bits                     |
|             | SS / radio frame                     | 2x2 bits                     |
|             | Repetition period                    | 8                            |
|             | Repetition length                    | 2                            |
|             | Puncturing limit                     | 0.56 (alt. (0.48))           |

#### 6.11.5.4.6.3a.2 Downlink

See clause 6.11.5.4.6.1a.2.

#### 6.11.5.4.6.4 Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

##### 6.11.5.4.6.4.1 Uplink

See clause 6.11.5.4.1.26.1.

##### 6.11.5.4.6.4.2 Downlink

See clause 6.11.5.4.6.1.2.

#### 6.11.5.4.6.5 Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

##### 6.11.5.4.6.5.1 Uplink

See clause 6.11.5.4.1.28.1.

##### 6.11.5.4.6.5.2 Downlink

See clause 6.11.5.4.6.1.2.

#### 6.11.5.4.6.6 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

##### 6.11.5.4.6.6.1 Uplink

See clause 6.11.5.4.1.38c.1.

##### 6.11.5.4.6.6.2 Downlink

##### 6.11.5.4.6.6.2.1 Transport channel parameters

##### 6.11.5.4.6.6.2.1.1 Transport channel parameters for HS-DSCH

See clause 6.11.5.4.6.1.2.1.1.

6.11.5.4.6.2.1.2 Transport channel parameters for DCH

6.11.5.4.6.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.2.4.1.4.2.1.1.

6.11.5.4.6.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.5.4.6.2.1.2.3 TFCS

See clause 6.10.2.4.1.4.2.1.3.

6.11.5.4.6.2.2 Physical channel parameters

6.11.5.4.6.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.4.2.2.

6.11.5.4.6.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.6.7 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

6.11.5.4.6.7.1 Uplink

See clause 6.11.5.4.1.40.1.

6.11.5.4.6.7.2 Downlink

See clause 6.11.5.4.6.2.

6.11.5.4.6.8 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

6.11.5.4.6.8.1 Uplink

See clause 6.11.5.4.1.51.1.

6.11.5.4.6.8.2 Downlink

6.11.5.4.6.8.2.1 Transport channel parameters

6.11.5.4.6.8.2.1.1 Transport channel parameters for HS-DSCH

See clause 6.11.5.4.6.1.2.1.1.

6.11.5.4.6.8.2.1.2 Transport channel parameters for DCH

6.11.5.4.6.8.2.1.2.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.6.8.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.11.5.4.6.8.2.1.2.3 TFCS

See clause 6.10.3.4.1.13.2.1.3.

6.11.5.4.6.8.2.2 Physical channel parameters

6.11.5.4.6.8.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.13.2.2.

6.11.5.4.6.8.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.6.9 Interactive or background / UL:64 DL: [bit rate depending on UE category] / PS RAB +  
Interactive or background / UL:64 DL: [bit rate depending on UE category] / PS  
RAB+UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.6.9.1 Uplink

See clause 6.11.5.4.1.57.1.

6.11.5.4.6.9.2 Downlink

6.11.5.4.6.9.2.1 Transport channel parameters

6.11.5.4.6.9.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.6.9.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on  
UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

6.11.5.4.6.9.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on  
UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

6.11.5.4.6.9.2.1.2 Transport channel parameters for DCH

6.11.5.4.6.9.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.6.9.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.11.5.4.6.9.2.2 Physical channel parameters

6.11.5.4.6.9.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.6.9.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.6.10 Conversational/Speech/UL:12.2 DL:12.2kbps/CS RAB + interactive or Background /  
UL:64 kbps DL: [bit rate depending on UE category]/PS RAB + interactive or  
Background / UL:64 kbps DL: [bit rate depending on UE category]/PS RAB + UL:3.4  
DL 3.4 kbps SRB for DCCH

6.11.5.4.6.10.1 Uplink

See clause 6.11.5.4.1.38d.

6.11.5.4.6.10.2 Downlink

6.11.5.4.6.10.2.1 Transport channel parameters

6.11.5.4.6.10.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.6.10.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on  
UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

6.11.5.4.6.10.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

6.11.5.4.6.10.2.1.2 Transport channel parameters for DCH

6.11.5.4.6.10.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.6.10.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.6.10.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.11.5.4.6.10.2.2 Physical channel parameters

6.11.5.4.6.10.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.4.2.2.

6.11.5.4.6.10.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.6.11 Streaming/ UL:32 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

6.11.5.4.6.11.1 Uplink

6.11.5.4.6.11.1.1 Transport channel parameters

6.11.5.4.6.11.1.1.1 Transport channel parameters for Streaming/ UL:32 kbps / PS RAB + UL:8 kbps / PS RAB + UL:3.4 kbps SRBs for DCCH

| Higher layer | RAB/Signalling RB                                   |           | RAB            | RAB               |
|--------------|-----------------------------------------------------|-----------|----------------|-------------------|
| RLC          | Logical channel type                                |           | DTCH           | DTCH              |
|              | RLC mode                                            |           | AM             | AM                |
|              | Payload sizes, bit                                  |           | 320 (alt. 128) | 320 (alt.128)     |
|              | Max data rate, bps                                  |           | 8 000          | 32 000            |
|              | AMD PDU header, bit                                 |           | 16             | 16                |
| MAC          | MAC header, bit                                     |           | 0              | 0                 |
|              | MAC multiplexing                                    |           | N/A            | N/A               |
| Layer 1      | TrCH type                                           |           | DCH            | DCH               |
|              | TB sizes, bit                                       |           | 336            | 336(alt. 144)     |
|              | TFS                                                 | TF0, bits | 0x336          | 0x336(alt. 0x144) |
|              |                                                     | TF1, bits | 1x336          | 1x336(alt. 1x144) |
|              |                                                     | TF2, bits | 2x336          | N/A(alt. 5x144)   |
|              | TTI, ms                                             |           | 20             | 40(alt. 80)       |
|              | Coding type                                         |           | TC             | TC                |
|              | CRC, bit                                            |           | 16             | 16                |
|              | Max number of bits/TTI after channel coding         |           | 2124           | 1068(alt. 2412)   |
|              | Max number of bits/radio frame before rate matching |           | 1062           | 267(alt. 302)     |
|              | RM attribute                                        |           | 135 to 175     | 135 to 175        |

6.11.5.4.6.11.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.6.11.1.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12 (alt. 18)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| TFCS      | (32kbps RAB, 8kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1),<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1)) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## 6.11.5.4.6.11.1.2 Physical channel parameters

|             |                                        |                                                          |
|-------------|----------------------------------------|----------------------------------------------------------|
| DPCH Uplink | Modulation                             | QPSK                                                     |
|             | Codes and time slots / radio frame     | SF4 x 1 code x 2 timeslots<br>+SF8 x 1 code x 2 timeslot |
|             | Max. Number of data bits / radio frame | 1032 bits                                                |
|             | TFCI code word / radio frame           | 16 bits                                                  |
|             | TPC / radio frame                      | 2x2 bits                                                 |
|             | SS / radio frame                       | 2x2 bits                                                 |
|             | Puncturing Limit                       | 0.68                                                     |

## 6.11.5.4.6.11.2 Downlink

See clause 6.11.5.4.6.9.2.

6.11.5.4.6.12 Streaming/ UL:16 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

## 6.11.5.4.6.12.1 Uplink

See clause 6.11.5.4.1.58.1.

## 6.11.5.4.6.12.2 Downlink

See clause 6.11.5.4.6.9.2.

6.11.5.4.6.13 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + interactive or Background/ UL:384 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

## 6.11.5.4.6.13.1 Uplink

## 6.11.5.4.6.13.1.1 Transport channel parameters

6.11.5.4.6.13.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.6.13.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.3.4.1.34.1.1.1.

6.11.5.4.6.13.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.6.13.1.1.4 TFCS

|           |                                                                                                                                                                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 36 (alt. 54)                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),<br>(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1)<br>(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),<br>(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),<br>(TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),<br>(TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),<br>(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),<br>(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),<br>(TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),<br>(TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1)) |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.11.5.4.6.13.1.2 Physical channel parameters

|             |                                        |                                                             |
|-------------|----------------------------------------|-------------------------------------------------------------|
| DPCH Uplink | Modulation                             | QPSK                                                        |
|             | Codes and time slots / frame           | SF1 x 1 code x 6 time slots+<br>SF8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 8776 bits                                                   |
|             | TFCl code word / radio frame           | 16 bits                                                     |
|             | TPC / radio frame                      | 2x2 bits                                                    |
|             | SS / radio frame                       | 2x2 bits                                                    |
|             | Puncturing Limit                       | 0.64                                                        |

#### 6.11.5.4.6.13.2 Downlink

See clause 6.11.5.4.6.2.

6.11.5.4.6.14 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:16 kbps  
 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps  
 DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

#### 6.11.5.4.6.14.1 Uplink

See clause 6.11.5.4.1.67.1.

#### 6.11.5.4.6.14.2 Downlink

See clause 6.11.5.4.6.10.2.

6.11.5.4.6.15 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:32 kbps  
 DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps  
 DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

#### 6.11.5.4.6.15.1 Uplink

##### 6.11.5.4.6.15.1.1 Transport channel parameters

6.11.5.4.6.15.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.6.15.1.1.2 Transport channel parameters for Streaming / unknown / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.11.5.4.6.15.1.1.3 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.6.15.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.6.15.1.1.5 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0,TF0), (TF1,TF0,TF0,TF1,TF0,TF0),(TF2,TF1,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF2,TF0,TF0), (TF1,TF0,TF0,TF2,TF0,TF0),(TF2,TF1,TF1,TF2,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF0,TF1,TF0),<br>(TF0,TF0,TF0,TF1,TF1,TF0), (TF1,TF0,TF0,TF1,TF1,TF0),(TF2,TF1,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF1,TF0), (TF1,TF0,TF0,TF2,TF1,TF0),(TF2,TF1,TF1,TF2,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF0,TF1), (TF1,TF0,TF0,TF1,TF0,TF1),(TF2,TF1,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF2,TF0,TF1), (TF1,TF0,TF0,TF2,TF0,TF1),(TF2,TF1,TF1,TF2,TF0,TF1),<br>(TF0,TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF0,TF1,TF1),<br>(TF0,TF0,TF0,TF1,TF1,TF1), (TF1,TF0,TF0,TF1,TF1,TF1),(TF2,TF1,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1,TF1), (TF1,TF0,TF0,TF2,TF1,TF1),(TF2,TF1,TF1,TF2,TF1,TF1) |

6.11.5.4.6.15.1.2 Physical channel parameters

|             |                                        |                             |
|-------------|----------------------------------------|-----------------------------|
| DPCH Uplink | Modulation                             | QPSK                        |
|             | Codes and time slots / frame           | SF2 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 1384 bits                   |
|             | TFCI code word / radio frame           | 16 bits                     |
|             | TPC / radio frame                      | 2x2 bits                    |
|             | SS / radio frame                       | 2x2 bits                    |
|             | Puncturing Limit                       | 0.56                        |

6.11.5.4.6.15.2 Downlink

See clause 6.11.5.4.6.10.2.

6.11.5.4.6.16 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming/ UL:64 kbps  
DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps  
DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

6.11.5.4.6.16.1 Uplink

6.11.5.4.6.16.1.1 Transport channel parameters

6.11.5.4.6.16.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.6.16.1.1.2 Transport channel parameters for Streaming / unknown / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.26.1.1.1.

6.11.5.4.6.16.1.1.3 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.6.16.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH



See clause 6.10.3.4.1.2.1.1.1.

#### 6.11.5.4.6.16.1.1.5 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0),<br>(TF0, TF0, TF0, TF3, TF0, TF0), (TF1, TF0, TF0, TF3, TF0, TF0), (TF2, TF1, TF1, TF3, TF0, TF0),<br>(TF0, TF0, TF0, TF4, TF0, TF0), (TF1, TF0, TF0, TF4, TF0, TF0), (TF2, TF1, TF1, TF4, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0),<br>(TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0),<br>(TF0, TF0, TF0, TF3, TF1, TF0), (TF1, TF0, TF0, TF3, TF1, TF0), (TF2, TF1, TF1, TF3, TF1, TF0),<br>(TF0, TF0, TF0, TF4, TF1, TF0), (TF1, TF0, TF0, TF4, TF1, TF0), (TF2, TF1, TF1, TF4, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1),<br>(TF0, TF0, TF0, TF3, TF0, TF1), (TF1, TF0, TF0, TF3, TF0, TF1), (TF2, TF1, TF1, TF3, TF0, TF1),<br>(TF0, TF0, TF0, TF4, TF0, TF1), (TF1, TF0, TF0, TF4, TF0, TF1), (TF2, TF1, TF1, TF4, TF0, TF1),<br>(TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1),<br>(TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1),<br>(TF0, TF0, TF0, TF3, TF1, TF1), (TF1, TF0, TF0, TF3, TF1, TF1), (TF2, TF1, TF1, TF3, TF1, TF1),<br>(TF0, TF0, TF0, TF4, TF1, TF1), (TF1, TF0, TF0, TF4, TF1, TF1), (TF2, TF1, TF1, TF4, TF1, TF1) |

#### 6.11.5.4.6.16.1.2 Physical channel parameters

| DPCH Uplink | Modulation                             | QPSK                                                        |
|-------------|----------------------------------------|-------------------------------------------------------------|
|             | Codes and time slots / frame           | SF2 x 1 code x 2 time slots+<br>SF4 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 2028 bits                                                   |
|             | TFCI code word / radio frame           | 16 bits                                                     |
|             | TPC / radio frame                      | 2x2 bits                                                    |
|             | SS / radio frame                       | 2x2 bits                                                    |
|             | Puncturing Limit                       | 0.52                                                        |

#### 6.11.5.4.6.16.2 Downlink

See clause 6.11.5.4.6.10.2.

6.11.5.4.6.17 Streaming/ UL:64 kbps DL:[Rate depending on UE category]/ PS RAB + interactive or Background/ UL:8 kbps DL:[Rate depending on UE category]/ PS RAB + UL:3.4 DL 3.4 kbps SRB for DCCH

#### 6.11.5.4.6.17.1 Uplink

See clause 6.11.5.4.1.51a.1.

#### 6.11.5.4.6.17.2 Downlink

See clause 6.11.5.4.6.9.2.

#### 6.11.5.4.7 Combinations on HS-PDSCH and E-PUCH

6.11.5.4.7.1 Stand-alone UL: [max bit rate depending on UE category and TTI] DL:[max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

#### 6.11.5.4.7.1.1 Uplink

##### 6.11.5.4.7.1.1.1 Transport channel parameters

##### 6.11.5.4.7.1.1.1.1 Transport channel parameters for E-DCH

#### 6.11.5.4.7.1.1.1.1.1 MAC-d flow parameters for Stand-alone UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

|                                                                                                                                                                                                                                                                                                                                                                                              |                                            | Alt 1<br>Fixed RLC + MAC-<br>e/es (Rel-7 and later)<br>NOTE 1 | Alt 2<br>Fixed RLC + MAC-i/is<br>(Rel-8 and later<br>releases)<br>NOTE 1 | Alt 3<br>Flexible RLC + MAC-<br>i/is (Rel-8 and later<br>releases)<br>NOTE 1 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Higher layer                                                                                                                                                                                                                                                                                                                                                                                 | RAB/Signalling RB                          | RAB                                                           |                                                                          |                                                                              |
| RLC                                                                                                                                                                                                                                                                                                                                                                                          | Logical channel type                       | DTCH                                                          |                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                              | RLC mode                                   | AM                                                            |                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                              | Payload sizes, bit                         | 320                                                           | 320                                                                      | Flexible from 80 up to 12000 (NOTE 2)                                        |
|                                                                                                                                                                                                                                                                                                                                                                                              | Max data rate, bps                         | Depends on UE category and TTI                                |                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                              | AMD PDU header, bit                        | 16                                                            |                                                                          |                                                                              |
| MAC                                                                                                                                                                                                                                                                                                                                                                                          | MAC multiplexing                           | N/A                                                           | N/A                                                                      | N/A                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                              | MAC-d PDU size, bit                        | 336                                                           | 336                                                                      | Flexible from 96 up to 12016                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                              | MAC type                                   | MAC-e/es                                                      | MAC-i/is                                                                 | MAC-i/is                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                              | MAC-e/es / MAC-i/is header fixed part, bit | 18                                                            | 24                                                                       | 24                                                                           |
| Layer 1                                                                                                                                                                                                                                                                                                                                                                                      | TrCH type                                  | E-DCH                                                         |                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                              | TTI                                        | 5ms                                                           |                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                              | Coding type                                | TC                                                            |                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                              | CRC, bit                                   | 24                                                            |                                                                          |                                                                              |
| NOTE 1: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-i/is) or 3 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case.                                                                                                                                                            |                                            |                                                               |                                                                          |                                                                              |
| NOTE 2: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter “Max SDU size”, ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. |                                            |                                                               |                                                                          |                                                                              |

#### 6.11.5.4.7.1.1.2 Physical channel parameters

##### 6.11.5.4.7.1.1.2.1 Physical channel parameters on E-PUCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE E-PUCH Physical Layer category 1(Rel-7 and later releases; QPSK):

|        |                     |             |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4           |
|        | TTI                 | 5 ms        |
|        | Max Data Rate       | 0.5508 Mbps |

UE E-PUCH Physical Layer category 2 (Rel-7 and later releases; QPSK):

|        |                     |             |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4           |
|        | TTI                 | 5ms         |
|        | Max Data Rate       | 0.8324 Mbps |

UE E-PUCH Physical Layer category 3 (Rel-7 and later releases; QPSK or 16QAM):

|        |                     |             |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4           |
|        | TTI                 | 5 ms        |
|        | Max Data Rate       | 1.1064 Mbps |

UE E-PUCH Physical Layer category 4 (Rel-7 and later releases; QPSK or 16QAM):

|        |                     |             |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4           |
|        | TTI                 | 5 ms        |
|        | Max Data Rate       | 1.6696 Mbps |

UE E-PUCH Physical Layer category 5 (Rel-7 and later releases; QPSK or 16QAM):

|        |                     |            |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4          |
|        | TTI                 | 5 ms       |
|        | Max Data Rate       | 2.232 Mbps |

UE E-PUCH Physical Layer category 6 (Rel-7 and later releases; QPSK or 16QAM):

|        |                     |            |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4          |
|        | TTI                 | 5 ms       |
|        | Max Data Rate       | 2.232 Mbps |

6.11.5.4.7.1.2 Downlink

6.11.5.4.7.1.2.1 Transport channel parameters

6.11.5.4.7.1.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.7.1.2.1.1.1 MAC-d flow parameters for Stand-alone DL: [max bit rate depending on UE category] SRBs for HS-DSCH

|                                                                                                                                                                                                   |                                         | Alt 1<br>Fixed RLC + MAC-hs<br>(Rel-5 and later releases)<br>NOTE |       |       |       | Alt 2<br>Fixed RLC + MAC-ehs<br>(Rel-8 and later releases)<br>NOTE |       |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------|-------|-------|-------|--------------------------------------------------------------------|-------|-------|-------|
| Higher layer                                                                                                                                                                                      | RAB/Signalling RB                       | SRB#1                                                             | SRB#2 | SRB#3 | SRB#4 | SRB#1                                                              | SRB#2 | SRB#3 | SRB#4 |
| RLC                                                                                                                                                                                               | Logical channel type                    | DCCH                                                              | DCCH  | DCCH  | DCCH  | DCCH                                                               | DCCH  | DCCH  | DCCH  |
|                                                                                                                                                                                                   | RLC mode                                | UM                                                                | AM    | AM    | AM    | UM                                                                 | AM    | AM    | AM    |
|                                                                                                                                                                                                   | Payload sizes, bit                      | 136                                                               | 128   | 128   | 128   | 136                                                                | 128   | 128   | 128   |
|                                                                                                                                                                                                   | Max data rate, bps                      | Depends on UE category and TTI                                    |       |       |       |                                                                    |       |       |       |
|                                                                                                                                                                                                   | AMD PDU header, bit                     | 8                                                                 | 16    | 16    | 16    | 8                                                                  | 16    | 16    | 16    |
| MAC                                                                                                                                                                                               | MAC-d header, bit                       | 4                                                                 | 4     | 4     | 4     | 4                                                                  | 4     | 4     | 4     |
|                                                                                                                                                                                                   | MAC multiplexing                        | 4 logical channel multiplexing                                    |       |       |       | 4 logical channel multiplexing                                     |       |       |       |
|                                                                                                                                                                                                   | MAC-d PDU size, bit                     | 148                                                               |       |       |       | 148                                                                |       |       |       |
|                                                                                                                                                                                                   | MAC type                                | MAC-hs                                                            |       |       |       | MAC-ehs                                                            |       |       |       |
|                                                                                                                                                                                                   | MAC-hs / MAC-ehs header fixed part, bit | 18                                                                |       |       |       | 24                                                                 |       |       |       |
|                                                                                                                                                                                                   |                                         |                                                                   |       |       |       |                                                                    |       |       |       |
| Layer 1                                                                                                                                                                                           | TrCH type                               | HS-DCH                                                            |       |       |       | HS-DCH                                                             |       |       |       |
|                                                                                                                                                                                                   | TTI                                     | 5ms                                                               |       |       |       | 5ms                                                                |       |       |       |
|                                                                                                                                                                                                   | Coding type                             | TC                                                                |       |       |       | TC                                                                 |       |       |       |
|                                                                                                                                                                                                   | CRC, bit                                | 24                                                                |       |       |       | 24                                                                 |       |       |       |
| NOTE : Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-i/is) then this shall be explicitly stated in the test case. |                                         |                                                                   |       |       |       |                                                                    |       |       |       |

6.11.5.4.7.1.2.2 Physical channel parameters

6.11.5.4.7.1.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.7.2 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.2.1 Uplink

6.11.5.4.7.2.1.1 Transport channel parameters

6.11.5.4.7.2.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.7.2.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.7.1.1.1.1.1.

6.11.5.4.7.2.1.1.2 Transport channel parameters for DCH

6.11.5.4.7.2.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.5.4.1.2.1.1.1.

6.11.5.4.7.2.1.2 Physical channel parameters

6.11.5.4.7.2.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.2.1.2.2 Physical channel parameters for DPCH

See clause 6.11.5.4.1.2.1.2

6.11.5.4.7.2.2 Downlink

See clause 6.11.5.4.6.1.2.

6.11.5.4.7.3 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH

6.11.5.4.7.3.1 Uplink

6.11.5.4.7.3.1.1 Transport channel parameters

6.11.5.4.7.3.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.7.3.1.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.7.1.1.1.1.1.

6.11.5.4.7.3.1.1.1.2 MAC-d flow#2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

|              |                                            | Alt 1<br>Fixed RLC + MAC-e/es<br>(Rel-6 and later releases)<br>NOTE |       |       |       | Alt 2<br>Fixed RLC + MAC-i/is<br>(Rel-8 and later releases)<br>NOTE |       |       |       |
|--------------|--------------------------------------------|---------------------------------------------------------------------|-------|-------|-------|---------------------------------------------------------------------|-------|-------|-------|
| Higher layer | RAB/Signalling RB                          | SRB#1                                                               | SRB#2 | SRB#3 | SRB#4 | SRB#1                                                               | SRB#2 | SRB#3 | SRB#4 |
| RLC          | Logical channel type                       | DCCH                                                                | DCCH  | DCCH  | DCCH  | DCCH                                                                | DCCH  | DCCH  | DCCH  |
|              | RLC mode                                   | UM                                                                  | AM    | AM    | AM    | UM                                                                  | AM    | AM    | AM    |
|              | Payload sizes, bit                         | 136                                                                 | 128   | 128   | 128   | 136                                                                 | 128   | 128   | 128   |
|              | Max data rate, bps                         | Depends on UE category and TTI                                      |       |       |       |                                                                     |       |       |       |
|              | AMD PDU header, bit                        | 8                                                                   | 16    | 16    | 16    | 8                                                                   | 16    | 16    | 16    |
| MAC          | MAC-es multiplexing                        | 4 logical channel multiplexing                                      |       |       |       | 4 logical channel multiplexing                                      |       |       |       |
|              | MAC-d PDU size, bit                        | 144                                                                 |       |       |       | 144                                                                 |       |       |       |
|              | MAC type                                   | MAC-e/es                                                            |       |       |       | MAC-i/is                                                            |       |       |       |
|              | MAC-e/es / MAC-i/is header fixed part, bit | 18                                                                  |       |       |       | 24                                                                  |       |       |       |
|              |                                            |                                                                     |       |       |       |                                                                     |       |       |       |
| Layer 1      | TrCH type                                  | E-DCH                                                               |       |       |       | E-DCH                                                               |       |       |       |
|              | TTI                                        | 5ms                                                                 |       |       |       | 5ms                                                                 |       |       |       |
|              | Coding type                                | TC                                                                  |       |       |       | TC                                                                  |       |       |       |
|              | CRC, bit                                   | 24                                                                  |       |       |       | 24                                                                  |       |       |       |

NOTE : Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-i/is) then this shall be explicitly stated in the test case.

6.11.5.4.7.3.1.2 Physical channel parameters

6.11.5.4.7.3.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.3.2 Downlink

See clause 6.11.5.4.6.1.2.

6.11.5.4.7.4 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.11.5.4.7.4.1 Uplink

See clause 6.11.5.4.7.1.1.

6.11.5.4.7.4.1.2 Physical channel parameters

6.11.5.4.7.4.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.4.2 Downlink

6.11.5.4.7.4.2.1 Transport channel parameters

6.11.5.4.7.4.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.7.4.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

6.11.5.4.7.4.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.11.5.4.7.1.2.1.1.1

6.11.5.4.7.4.2.2 Physical channel parameters

6.11.5.4.7.4.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.7.5 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.7.5.1 Uplink

6.11.5.4.7.5.1.1 Transport channel parameters

6.11.5.4.7.5.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.7.5.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.7.1.1.1.1.1.

6.11.5.4.7.5.1.1.2 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.5.4.1.4.1.1.1.

6.11.5.4.7.5.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.5.4.1.2.1.1.1.

6.11.5.4.7.5.1.1.4 TFCS

See clause 6.11.5.4.1.4.1.1.3.

6.11.5.4.7.5.1.2 Physical channel parameters

6.11.5.4.7.5.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.5.1.2.2 Physical channel parameters on DCH

See clause 6.11.5.4.1.4.1.2.

6.11.5.4.7.5.2 Downlink

See clause 6.11.5.4.6.2.

6.11.5.4.7.6 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.6.1 Uplink

6.11.5.4.7.6.1.1 Transport channel parameters

6.11.5.4.7.6.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.7.6.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

|              |                                 |                                |
|--------------|---------------------------------|--------------------------------|
| Higher layer | RAB/Signalling RB               | RAB                            |
| RLC          | Logical channel type            | DTCH                           |
|              | RLC mode                        | UM                             |
|              | Payload sizes, bit              | 328                            |
|              | Max data rate, bps              | Depends on UE category and TTI |
|              | UMD PDU header, bit             | 8                              |
| MAC          | MAC multiplexing                | N/A                            |
|              | MAC-d PDU size, bit             | 336                            |
|              | MAC-e/es header fixed part, bit | 18                             |
| Layer 1      | TrCH type                       | E-DCH                          |
|              | TTI                             | 5ms                            |
|              | Coding type                     | TC                             |
|              | CRC, bit                        | 24                             |

6.11.5.4.7.6.1.1.2 Transport channel parameters for DCH

6.11.5.4.7.6.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.5.4.1.2.1.1.1.

6.11.5.4.7.6.1.2 Physical channel parameters

6.11.5.4.7.6.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.6.1.2.2 Physical channel parameters for DPCH

See clause 6.11.5.4.1.2.1.2

## 6.11.5.4.7.6.2 Downlink

## 6.11.5.4.7.6.2.1 Transport channel parameters

## 6.11.5.4.7.6.2.1.1 Transport channel parameters for HS-DSCH

## 6.11.5.4.7.6.2.1.1.1 MAC-d flow parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

|              |                                 |                                |
|--------------|---------------------------------|--------------------------------|
| Higher layer | RAB/Signalling RB               | RAB                            |
| RLC          | Logical channel type            | DTCH                           |
|              | RLC mode                        | UM                             |
|              | Payload sizes, bit              | 328                            |
|              | Max data rate, bps              | Depends on UE category and TTI |
|              | UMD PDU header, bit             | 8                              |
| MAC          | MAC-d header, bit               | 0                              |
|              | MAC multiplexing                | N/A                            |
|              | MAC-d PDU size, bit             | 336                            |
|              | MAC-e/es header fixed part, bit | 21                             |
| Layer 1      | TrCH type                       | HS-DSCH                        |
|              | TTI                             | 5ms                            |
|              | Coding type                     | TC                             |
|              | CRC, bit                        | 24                             |

NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]).

## 6.11.5.4.7.6.2.1.2 Transport channel parameters for DCH

## 6.11.5.4.7.6.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.5.4.1.2.2.1.1.

## 6.11.5.4.7.6.2.1.2.2 TFCS

See clause 6.11.5.4.1.2.2.1.2.

## 6.11.5.4.7.6.2.2 Physical channel parameters

## 6.11.5.4.7.6.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

## 6.11.5.4.7.6.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.7.7 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] + UL: [max bit rate depending on UE category and TTI] DL: 3.4 kbps SRBs for DCCH on E-DCH and DL DCH

## 6.11.5.4.7.7.1 Uplink

## 6.11.5.4.7.7.1.1 Transport channel parameters

## 6.11.5.4.7.7.1.1.1 Transport channel parameters for E-DCH

## 6.11.5.4.7.7.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.5.4.7.3.1.1.1.2.

## 6.11.5.4.7.7.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.7.6.1.1.1.1

6.11.5.4.7.7.1.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.7.6.1.1.1.1

6.11.5.4.7.7.1.2 Physical channel parameters

6.11.5.4.7.7.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.7.7.2 Downlink

6.11.5.4.7.7.2.1 Transport channel parameters

6.11.5.4.7.7.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.7.7.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.7.6.2.1.1.1.

6.11.5.4.7.7.2.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.7.6.2.1.1.1.

6.11.5.4.7.7.2.1.2 Transport channel parameters for DCH

6.11.5.4.7.7.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.5.4.1.2.2.1.1.

6.11.5.4.7.7.2.1.2.2 TFCS

See clause 6.11.5.4.1.2.2.1.2.

6.11.5.4.7.7.2.2 Physical channel parameters

6.11.5.4.7.7.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.7.7.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.7.8 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.8.1 Uplink

See clause 6.11.5.4.7.2.1.

6.11.5.4.7.8.2 Downlink

See clause 6.11.5.4.1.32.2.

6.11.5.4.7.9 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.5.4.7.9.1 Uplink

See clause 6.11.5.4.7.2.1.



## 6.11.5.4.7.9.2 Downlink

See clause 6.11.5.4.1.27.2.

6.11.5.4.7.10 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

## 6.11.5.4.7.10.1 Uplink

See clause 6.11.5.4.7.2.1.

## 6.11.5.4.7.10.2 Downlink

See clause 6.11.5.4.1.25.2.

6.11.5.4.7.11 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

## 6.11.5.4.7.11.1 Uplink

See clause 6.11.5.4.7.2.1.

## 6.11.5.4.7.11.2 Downlink

See clause 6.11.5.4.1.23d.2.

6.11.5.4.7.12 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

## 6.11.5.4.7.12.1 Uplink

## 6.11.5.4.7.12.1.1 Transport channel parameters

## 6.11.5.4.7.12.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.7.12.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.5.4.7.3.1.1.1.2.

6.11.5.4.7.12.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.7.6.1.1.1.1

## 6.11.5.4.7.12.1.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.5.4.1.2.1.1.1.

## 6.11.5.4.7.12.1.2 Physical channel parameters

## 6.11.5.4.7.12.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

## 6.11.5.4.7.12.1.2.2 Physical channel parameters for DPCH

See clause 6.11.5.4.1.2.1.2

## 6.11.5.4.7.12.2 Downlink

See clause 6.11.5.4.1.57.2.

6.11.5.4.7.13 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

**6.11.5.4.7.13.1 Uplink**

See clause 6.11.5.4.7.5.1.

**6.11.5.4.7.13.2 Downlink**

See clause 6.11.5.4.1.43.2.

**6.11.5.4.7.14** Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

**6.11.5.4.7.14.1 Uplink**

See clause 6.11.5.4.7.5.1.

**6.11.5.4.7.14.2 Downlink**

See clause 6.11.5.4.1.39.2.

**6.11.5.4.7.15** Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

**6.11.5.4.7.15.1 Uplink****6.11.5.4.7.15.1.1 Transport channel parameters****6.11.5.4.7.15.1.1.1 Transport channel parameters for E-DCH**

**6.11.5.4.7.15.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH**

See clause 6.11.5.4.7.3.1.1.1.2.

**6.11.5.4.7.15.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB**

See clause 6.11.5.4.7.6.1.1.1.1

**6.11.5.4.7.15.1.1.2 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB**

See clause 6.11.5.4.1.4.1.1.1.

**6.11.5.4.7.15.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH**

See clause 6.11.5.4.1.2.1.1.1.

**6.11.5.4.7.15.1.1.4 TFCS**

See clause 6.11.5.4.1.4.1.1.3.

**6.11.5.4.7.15.1.2 Physical channel parameters****6.11.5.4.7.15.1.2.1 Physical channel parameters on E-PUCH**

See clause 6.11.5.4.7.1.1.2.1.

**6.11.5.4.7.15.1.2.2 Physical channel parameters on DPCH**

See clause 6.11.5.4.1.4.1.2.

**6.11.5.4.7.15.2 Downlink**

See clause 6.11.5.4.1.38d.2.

6.11.5.4.7.16 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.7.16.1 Uplink

See clause 6.11.5.4.7.15.1.

6.11.5.4.7.16.2 Downlink

See clause 6.11.5.4.1.67.2.

6.11.5.4.7.17 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 32 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.7.17.1 Uplink

See clause 6.11.5.4.7.15.1.

6.11.5.4.7.17.2 Downlink

6.11.5.4.7.17.2.1 Transport channel parameters

6.11.5.4.7.17.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.7.17.2.1.2 Transport channel parameters for Streaming or interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.2.1.1.

6.11.5.4.7.17.2.1.3 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.7.17.2.1.4 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.7.17.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1),<br>(TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1),<br>(TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

6.11.5.4.7.17.2.2 Physical channel parameters

|               |                                      |                                |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation                           | QPSK                           |
|               | Codes and time slots / radio frame   | SF 16 x 8 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 1384 bits                      |
|               | TFCI code word / radio frame         | 16 bits                        |

|  |                   |          |
|--|-------------------|----------|
|  | TPC / radio frame | 2x2 bits |
|  | SS / radio frame  | 2x2 bits |
|  | Puncturing Limit  | 0.56     |

6.11.5.4.7.18 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 16 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: 8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.7.18.1 Uplink

See clause 6.11.5.4.7.15.1.

6.11.5.4.7.18.2 Downlink

6.11.5.4.7.18.2.1 Transport channel parameters

6.11.5.4.7.18.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.7.18.2.1.2 Transport channel parameters for Streaming or interactive or background / DL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.2.1.1.

6.11.5.4.7.18.2.1.3 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.7.18.2.1.4 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.7.18.2.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0, TF0), (TF1, TF0, TF0, TF1, TF0, TF0), (TF2, TF1, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF2, TF0, TF0), (TF1, TF0, TF0, TF2, TF0, TF0), (TF2, TF1, TF1, TF2, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF0, TF1, TF0),<br>(TF0, TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF1, TF0), (TF2, TF1, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF1, TF0), (TF1, TF0, TF0, TF2, TF1, TF0), (TF2, TF1, TF1, TF2, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF0, TF1), (TF1, TF0, TF0, TF1, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF2, TF0, TF1), (TF1, TF0, TF0, TF2, TF0, TF1), (TF2, TF1, TF1, TF2, TF0, TF1),<br>(TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF0, TF1, TF1),<br>(TF0, TF0, TF0, TF1, TF1, TF1), (TF1, TF0, TF0, TF1, TF1, TF1), (TF2, TF1, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1, TF1), (TF1, TF0, TF0, TF2, TF1, TF1), (TF2, TF1, TF1, TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

6.11.5.4.7.18.2.2 Physical channel parameters

|               |                                      |                                |
|---------------|--------------------------------------|--------------------------------|
| DPCH Downlink | Modulation                           | QPSK                           |
|               | Codes and time slots / radio frame   | SF 16 x 6 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 1032 bits                      |
|               | TFCI code word / radio frame         | 16 bits                        |
|               | TPC / radio frame                    | 2x2 bits                       |
|               | SS / radio frame                     | 2x2 bits                       |
|               | Puncturing Limit                     | 0.56                           |

6.11.5.4.7.19 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:64 kbps / PS RAB + Streaming or interactive or background / UL: [max bit

rate depending on UE category and TTI] DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps  
SRBs for DCCH on DCH

#### 6.11.5.4.7.19.1 Uplink

See clause 6.11.5.4.7.12.1.

#### 6.11.5.4.7.19.2 Downlink

See clause 6.11.5.4.1.58.2.

#### 6.11.5.4.7.20 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:32 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

##### 6.11.5.4.7.20.1 Uplink

See clause 6.11.5.4.7.12.1.

##### 6.11.5.4.7.20.2 Downlink

See clause 6.11.5.4.1.63.2.

#### 6.11.5.4.7.21 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:16 kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

##### 6.11.5.4.7.21.1 Uplink

See clause 6.11.5.4.7.12.1.

##### 6.11.5.4.7.21.2 Downlink

##### 6.11.5.4.7.21.2.1 Transport channel parameters

##### 6.11.5.4.7.21.2.1.1 Transport channel parameters for Streaming or interactive or background / DL:16 kbps / PS RAB

See clause 6.10.3.4.1.23b.2.1.1.

##### 6.11.5.4.7.21.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

##### 6.11.5.4.7.21.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

##### 6.11.5.4.7.21.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                              |
| TFCS                                                                                                                    | (16 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0),<br>(TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0),<br>(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1),<br>(TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                 |

##### 6.11.5.4.7.21.2.2 Physical channel parameters

|               |                                        |                              |
|---------------|----------------------------------------|------------------------------|
| DPCH Downlink | Modulation                             | QPSK                         |
|               | Codes and time slots / radio frame     | SF16 x 4 code x 2 time slots |
|               | Max. Number of data bits / radio frame | 680 bits                     |
|               | TFCI code word / radio frame           | 16 bits                      |
|               | TPC / radio frame                      | 2x2 bits                     |

|  |                  |          |
|--|------------------|----------|
|  | SS / radio frame | 2x2 bits |
|  | Puncturing Limit | 0.60     |

6.11.5.4.7.22 Conversational / unknown or speech / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.11.5.4.7.22.1 Uplink

6.11.5.4.7.22.1.1 Transport channel parameters

6.11.5.4.7.22.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.7.22.1.1.1.1 MAC-d flow #1 parameters for Conversational / unknown or speech / UL: [max bit rate depending on UE category and TTI] / PS RAB

|                                                                                                                                                                                                                                                                                                                                                                                                |                                               | Alt 1<br>Fixed RLC + MAC-<br>e/es (Rel-6 and later)<br>NOTE 2                 | Alt 2<br>Flexible RLC + MAC-<br>i/is (Rel-8 and later<br>releases)<br>NOTE 1 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Higher layer                                                                                                                                                                                                                                                                                                                                                                                   | RAB/Signalling RB                             | RAB                                                                           |                                                                              |
| PDPCP                                                                                                                                                                                                                                                                                                                                                                                          | PDPCP header size, bit                        | 0                                                                             |                                                                              |
| RLC                                                                                                                                                                                                                                                                                                                                                                                            | Logical channel type                          | DTCH                                                                          |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | RLC mode                                      | UM                                                                            |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | Payload sizes, bit                            | 88, 104, 136, 152, 168,<br>184, 200, 216, 280,<br>288, 304, 336 (alt 328)     | Flexible from 88 up to<br>12000<br>(NOTE 2)                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                | Max data rate, bps                            | Depends on UE category and TTI                                                |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | UMD PDU header, bit                           | 8                                                                             |                                                                              |
| MAC                                                                                                                                                                                                                                                                                                                                                                                            | MAC multiplexing                              | N/A                                                                           |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC-d PDU size, bit                           | 96, 112 , 144, 160,<br>176, 192, 208, 224,<br>288, 296, 312, 344 (alt<br>336) | Flexible from 96 up to<br>12008                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC type                                      | MAC-e/es                                                                      | MAC-i/is                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                | MAC-e/es / MAC-i/is header<br>fixed part, bit | 18                                                                            | 24                                                                           |
| Layer 1                                                                                                                                                                                                                                                                                                                                                                                        | TrCH type                                     | E-DCH                                                                         |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | TTI                                           | 5ms                                                                           |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | Coding type                                   | TC                                                                            |                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                | CRC, bit                                      | 24                                                                            |                                                                              |
| NOTE 1: Alternative 1 with Fixed RLC + MAC-e/es is the default configuration. For test cases that use alternative 2 (Flexible RLC + MAC-i/is) then this shall be explicitly stated in the test case.                                                                                                                                                                                           |                                               |                                                                               |                                                                              |
| NOTE 2: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDPCP layer is limited to 12000 bits (1500 octets limit in QoS parameter “Max SDU size”, ref: TS 24.008 clause 10.5.6.5). As no PDPCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. |                                               |                                                                               |                                                                              |

6.11.5.4.7.22.1.1.1.2 MAC-d flow #2 parameters for Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.7.1.1.1.1.

6.11.5.4.7.22.1.1.1.3 MAC-d flow #3 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.5.4.7.3.1.1.1.2.

6.11.5.4.7.22.1.2 Physical channel parameters

## 6.11.5.4.7.22.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

## 6.11.5.4.7.22.2 Downlink

## 6.11.5.4.7.22.2.1 Transport channel parameters

## 6.11.5.4.7.22.2.1.1 Transport channel parameters for HS-DSCH

## 6.11.5.4.7.22.2.1.1.1 MAC-d flow#1 parameters for Conversational / unknown or speech / DL: [max bit rate depending on UE category] kbps / PS RAB

|                                                                                                                                                                                                                                                                                                                                                                                              |                                   | <b>Alt 1<br/>Fixed RLC +<br/>MAC-hs<br/>(Rel-5 and later<br/>releases)<br/>NOTE 2</b> | <b>Alt 2<br/>Fixed RLC +<br/>MAC-ehs<br/>(Rel-7 and later<br/>releases)<br/>NOTE 2</b> | <b>Alt 3<br/>Flexible RLC +<br/>MAC-ehs<br/>(Rel-7 and later<br/>releases)<br/>NOTE 2</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Higher Layer                                                                                                                                                                                                                                                                                                                                                                                 | RAB/Signalling RB                 | <b>RAB</b>                                                                            |                                                                                        |                                                                                           |
| RLC                                                                                                                                                                                                                                                                                                                                                                                          | Logical channel type              | <b>DTCH</b>                                                                           |                                                                                        |                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                              | RLC mode                          | <b>UM</b>                                                                             |                                                                                        |                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                              | Payload sizes, bit                | 104, 136, 152,<br>168, 184, 216,<br>288, 336 (alt 328 )                               | 104, 136, 152,<br>168, 184, 216,<br>288, 336 (alt 328 )                                | Flexible up to<br>12000<br>(NOTE 3)                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                              | Max data rate, bps                | depends on UE category<br>NOTE1                                                       |                                                                                        |                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                              | UMD PDU header, bit               | 8                                                                                     | 8                                                                                      | 8                                                                                         |
| MAC                                                                                                                                                                                                                                                                                                                                                                                          | MAC-d header, bit                 | 0                                                                                     | 0                                                                                      | 0                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                              | MAC multiplexing                  | N/A                                                                                   | N/A                                                                                    | N/A                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                              | MAC-d PDU size, bit               | 112 , 144, 160,<br>176, 192, 224,<br>296, 344 (alt 336)                               | 112 , 144, 160,<br>176, 192, 224,<br>296, 344 (alt 336)                                | Flexible                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                              | MAC-hs Type                       | MAC-hs                                                                                | MAC-ehs                                                                                | MAC-ehs                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                              | MAC-hs/ehs header fixed part, bit | 21                                                                                    | 24                                                                                     | 24                                                                                        |
| Layer 1                                                                                                                                                                                                                                                                                                                                                                                      | TrCH type                         | HS-DSCH                                                                               | HS-DSCH                                                                                | HS-DSCH                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                              | TTI                               | 5 ms                                                                                  | 5 ms                                                                                   | 5 ms                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                              | Coding type                       | TC                                                                                    | TC                                                                                     | TC                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                              | CRC, bit                          | 24                                                                                    | 24                                                                                     | 24                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                              | Applicable modulation schemes     | QPSK,<br>16QAM                                                                        | QPSK,<br>16QAM, 64QAM                                                                  | QPSK,<br>16QAM, 64QAM                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                              | Applicable with MIMO              | No                                                                                    | Yes                                                                                    | Yes                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                              | Applicable with Dual-Cell HSDPA   | No                                                                                    | Yes                                                                                    | Yes                                                                                       |
| NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]).                                                                                                                                                                                                                                                    |                                   |                                                                                       |                                                                                        |                                                                                           |
| NOTE 2: Alternative 1 with Fixed RLC + MAC-hs is the default configuration. For test cases that use alternatives 2 (Fixed RLC + MAC-ehs) or 3 (Flexible RLC + MAC-ehs) then this shall be explicitly stated in the test case.                                                                                                                                                                |                                   |                                                                                       |                                                                                        |                                                                                           |
| NOTE 3: The Maximum RLC payload size for Flexible RLC is 12024 bits (1503 octets, ref: TS 25.322 clause 9.2.2.9). The maximum SDU size above PDCP layer is limited to 12000 bits (1500 octets limit in QoS parameter "Max SDU size", ref: TS 24.008 clause 10.5.6.5). As no PDCP header is used in this radio bearer configuration then the RLC payload size has been limited to 12000 bits. |                                   |                                                                                       |                                                                                        |                                                                                           |

## 6.11.5.4.7.22.2.1.1.2 MAC-d flow#2 parameters for Streaming or Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1.

## 6.11.5.4.7.22.2.1.1.3 MAC-d flow#3 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.11.5.4.7.1.2.1.1.1.

## 6.11.5.4.7.22.2.2 Physical channel parameters

## 6.11.5.4.7.22.2.2.1 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

## 6.11.5.4.8 Reference Radio Bearer configurations used in MAC-e-hs testing

## 6.11.5.4.8.1 3 x Interactive or background / UL: 8 kbps DL: [max bit rate depending on UE category] / UM PS RAB

This reference radio bearer configuration is used by the MAC-e-hs test case 7.1.x.x in 3GPP TS 34.123-1 [1].

## 6.11.5.4.8.1.1 Uplink

## 6.11.5.4.8.1.1.1 Uplink Transport channel parameters for DCH

## 6.11.5.4.8.1.1.1.1 Transport channel parameters for 3 x Interactive or background / UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                           | RB5                            | RB6   | RB7   |
|--------------|-------------------------------------------------------------|--------------------------------|-------|-------|
| RLC          | Logical channel type                                        | DTCH                           | DTCH  | DTCH  |
|              | RLC mode                                                    | UM                             | UM    | UM    |
|              | Payload sizes, bit                                          | 328                            | 328   | 320   |
|              | Max data rate, bps                                          | 8 200                          | 8 200 | 8 000 |
|              | UMD/AMD PDU header, bit                                     | 8                              | 8     | 8     |
| MAC          | MAC header, bit                                             | 4                              | 4     | 4     |
|              | MAC multiplexing                                            | 3 logical channel multiplexing |       |       |
| Layer 1      | TrCH type                                                   | DCH                            |       |       |
|              | TB sizes, bit                                               | 340                            |       |       |
|              | TFS                                                         | TF0, bits                      |       | 0x340 |
|              |                                                             | TF1, bits                      |       | 1x340 |
|              | TTI, ms                                                     | 40                             |       |       |
|              | Coding type                                                 | TC                             |       |       |
|              | CRC, bit                                                    | 16                             |       |       |
|              | Max number of bits/TTI after channel coding                 | 1 080                          |       |       |
|              | Uplink: Max number of bits/radio frame before rate matching | 270                            |       |       |
|              | RM attribute                                                | 135 to 175                     |       |       |

## 6.11.5.4.8.1.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.8.1.1.1.3 Uplink TFCS

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| TFCS size | 4                                                                          |
| TFCS      | (5x8 kbps PS RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.11.5.4.8.1.1.2 Uplink physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 0.72 (alt 0.68)              |

## 6.11.5.4.8.1.2 Downlink

## 6.11.5.4.8.1.2.1 Transport channel parameters for HS-DSCH



6.11.5.4.8.1.2.1.1 parameters for 3 x Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB    | RB5                    | RB6  | RB7  |
|--------------|----------------------|------------------------|------|------|
| RLC          | Logical channel type | DTCH                   | DTCH | DTCH |
|              | RLC mode             | UM                     | UM   | UM   |
|              | Payload sizes, bit   | 328                    | 328  | 328  |
|              | Max data rate, bps   | depends on UE category |      |      |
|              | UMD PDU header, bit  | 8                      | 8    | 8    |
| MAC-d        | MAC-d header, bit    | None                   |      |      |
|              | MAC multiplexing     | None                   |      |      |
|              | MAC-d PDU size, bit  | 336                    |      |      |

6.11.5.4.8.1.2.1.2 MAC-ehs and Layer 1 parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

|         |                                |         |
|---------|--------------------------------|---------|
| MAC-ehs | MAC-ehs header fixed part, bit | FFS     |
| Layer 1 | TrCH type                      | HS-DSCH |
|         | TTI                            | 5 ms    |
|         | Coding type                    | TC      |
|         | CRC, bit                       | 24      |

6.11.5.4.8.1.2.2 Downlink Transport channel parameters for DCH

6.11.5.4.8.1.2.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.8.1.2.2.2 Downlink TFCS

|           |                          |
|-----------|--------------------------|
| TFCS size | 2                        |
| TFCS      | SRBs for DCCH = TF0, TF1 |

6.11.5.4.8.1.2.3 Downlink physical channel parameters

6.11.5.4.8.1.2.3.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.8.1.2.3.2 Physical channel parameters on HS-PDSCH

UE HS-DSCH Physical Layer:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | Depending on UE category          |

6.11.5.4.8.2 1 x Interactive or background / UL: 8 kbps DL: [max bit rate depending on UE category] / UM PS RAB

This reference radio bearer configuration is used by the MAC-ehs test case 7.1.x.x in 3GPP TS 34.123-1 [1].

6.11.5.4.8.2.1 Uplink

6.11.5.4.8.2.1.1 Uplink Transport channel parameters for DCH

## 6.11.5.4.8.2.1.1.1 Transport channel parameters for 1 x Interactive or background / UL:8 kbps / PS RAB

|              |                                                             |           |            |
|--------------|-------------------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                           |           | RB5        |
| RLC          | Logical channel type                                        |           | DTCH       |
|              | RLC mode                                                    |           | UM         |
|              | Payload sizes, bit                                          |           | 328        |
|              | Max data rate, bps                                          |           | 8 200      |
|              | UMD/AMD PDU header, bit                                     |           | 8          |
| MAC          | MAC header, bit                                             |           | 0          |
|              | MAC multiplexing                                            |           | N/A        |
| Layer 1      | TrCH type                                                   |           | DCH        |
|              | TB sizes, bit                                               |           | 336        |
|              | TFS                                                         | TF0, bits | 0x336      |
|              |                                                             | TF1, bits | 1x336      |
|              | TTI, ms                                                     |           | 40         |
|              | Coding type                                                 |           | TC         |
|              | CRC, bit                                                    |           | 16         |
|              | Max number of bits/TTI after channel coding                 |           | 1 080      |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 270        |
|              | RM attribute                                                |           | 135 to 175 |

## 6.11.5.4.8.2.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.11.5.4.8.2.1.1.3 Uplink TFCS

|           |                                                                          |
|-----------|--------------------------------------------------------------------------|
| TFCS size | 4                                                                        |
| TFCS      | (8 kbps PS RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

## 6.11.5.4.8.2.1.2 Uplink physical channel parameters

|             |                                        |                              |
|-------------|----------------------------------------|------------------------------|
| DPCH Uplink | Modulation                             | QPSK                         |
|             | Codes and time slots / radio frame     | SF 8 x 1 code x 2 time slots |
|             | Max. Number of data bits / radio frame | 328 bits                     |
|             | TFCI code word / radio frame           | 16 bits                      |
|             | TPC / radio frame                      | 2x2 bits                     |
|             | SS / radio frame                       | 2x2 bits                     |
|             | Puncturing Limit                       | 0.72 (alt 0.68)              |

## 6.11.5.4.8.2.2 Downlink

## 6.11.5.4.8.2.2.1 Transport channel parameters for HS-DSCH

6.11.5.4.8.2.2.1.1 parameters for 1 x Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

| Higher layer | RAB/Signalling RB              | <b>RB5</b>             |
|--------------|--------------------------------|------------------------|
| RLC          | Logical channel type           | DTCH                   |
|              | RLC mode                       | UM                     |
|              | Payload sizes, bit             | 328                    |
|              | Max data rate, bps             | depends on UE category |
|              | UMD PDU header, bit            | 8                      |
| MAC-d        | MAC-d header, bit              | None                   |
|              | MAC multiplexing               | None                   |
|              | MAC-d PDU size, bit            | 336                    |
| MAC-ehs      | MAC-ehs header fixed part, bit | 24                     |
| Layer 1      | TrCH type                      | HS-DSCH                |
|              | TTI                            | 2 ms                   |
|              | Coding type                    | TC                     |
|              | CRC, bit                       | 24                     |

6.11.5.4.8.2.2.2 Downlink Transport channel parameters for DCH

6.11.5.4.8.2.2.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.8.2.2.2.2 Downlink TFCS

|           |                          |
|-----------|--------------------------|
| TFCS size | 2                        |
| TFCS      | SRBs for DCCH = TF0, TF1 |

6.11.5.4.8.2.2.3 Downlink physical channel parameters

6.11.5.4.8.2.2.3.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.8.2.2.3.2 Physical channel parameters on HS-PDSCH

UE HS-DSCH Physical Layer:

|          |                     |                                   |
|----------|---------------------|-----------------------------------|
| HS-PDSCH | Number of processes | 2                                 |
|          | Process memory size | Split equally among all processes |
|          | Max Data Rate       | Depending on UE category          |

## 6.11.5.4.9 Reference Radio Bearer configurations used in Improved L2 UL testing

## 6.11.5.4.9.1 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

## 6.11.5.4.9.1.1 Uplink

## 6.11.5.4.9.1.1.1 Transport channel parameters

## 6.11.5.4.9.1.1.1.1 Transport channel parameters for E-DCH

## 6.11.5.4.9.1.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

|                                                                                                                                                                                                                                  |                                               | Alt 1<br>Fixed RLC + MAC-<br>e/es (Rel-6 and later)<br>NOTE | Alt 2<br>Fixed RLC + MAC-i/is<br>(Rel-8 and later<br>releases)<br>NOTE | Alt 3<br>Flexible RLC + MAC-<br>i/is (Rel-8 and later<br>releases)<br>NOTE |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Higher layer                                                                                                                                                                                                                     | RAB/Signalling RB                             | RAB                                                         |                                                                        |                                                                            |
| RLC                                                                                                                                                                                                                              | Logical channel type                          | DTCH                                                        |                                                                        |                                                                            |
|                                                                                                                                                                                                                                  | RLC mode                                      | UM                                                          |                                                                        |                                                                            |
|                                                                                                                                                                                                                                  | Payload sizes, bit                            | 328                                                         | 328                                                                    | Flexible up to 12000                                                       |
|                                                                                                                                                                                                                                  | Max data rate, bps                            | Depends on UE category and TTI                              |                                                                        |                                                                            |
|                                                                                                                                                                                                                                  | UMD PDU header, bit                           | 8                                                           |                                                                        |                                                                            |
| MAC                                                                                                                                                                                                                              | MAC multiplexing                              | N/A                                                         | N/A                                                                    | N/A                                                                        |
|                                                                                                                                                                                                                                  | MAC-d PDU size, bit                           | 336                                                         | 336                                                                    | Flexible                                                                   |
|                                                                                                                                                                                                                                  | MAC type                                      | MAC-e/es                                                    | MAC-i/is                                                               | MAC-i/is                                                                   |
|                                                                                                                                                                                                                                  | MAC-e/es / MAC-i/is header<br>fixed part, bit | 18                                                          | 24                                                                     | 24                                                                         |
| Layer 1                                                                                                                                                                                                                          | TrCH type                                     | E-DCH                                                       |                                                                        |                                                                            |
|                                                                                                                                                                                                                                  | TTI                                           | 5ms                                                         |                                                                        |                                                                            |
|                                                                                                                                                                                                                                  | Coding type                                   | TC                                                          |                                                                        |                                                                            |
|                                                                                                                                                                                                                                  | CRC, bit                                      | 24                                                          |                                                                        |                                                                            |
| NOTE : Alternative 3 with Flexible RLC + MAC-i/is is the default configuration. For test cases that use alternatives 1 (Fixed RLC + MAC-e/es) or 2 (Fixed RLC + MAC-i/is) then this shall be explicitly stated in the test case. |                                               |                                                             |                                                                        |                                                                            |

## 6.11.5.4.9.1.1.1.1.2 Transport channel parameters for DCH

## 6.11.5.4.9.1.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1

## 6.11.5.4.9.1.1.2 Physical channel parameters

## 6.11.5.4.9.1.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1

## 6.11.5.4.9.1.1.2.2 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.1.2

## 6.11.5.4.9.1.2 Downlink

## 6.11.5.4.9.1.2.1 Transport channel parameters

## 6.11.5.4.9.1.2.1.1 Transport channel parameters for HS-DSCH

## 6.11.5.4.9.1.2.1.1.1 MAC-d flow parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

|              |                      |      |
|--------------|----------------------|------|
| Higher layer | RAB/Signalling RB    | RAB  |
| RLC          | Logical channel type | DTCH |
|              | RLC mode             | UM   |

|                                                                                                                                                      |                                |                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------|
|                                                                                                                                                      | Payload sizes, bit             | Flexible up to 12000            |
|                                                                                                                                                      | Max data rate, bps             | depends on UE category<br>NOTE1 |
| MAC                                                                                                                                                  | UMD PDU header, bit            | 8                               |
|                                                                                                                                                      | MAC-d header, bit              | 0                               |
|                                                                                                                                                      | MAC multiplexing               | N/A                             |
|                                                                                                                                                      | MAC-d PDU size, bit            | Flexible                        |
|                                                                                                                                                      | MAC-ehs header fixed part, bit | 24                              |
| Layer 1                                                                                                                                              | TrCH type                      | HS-DSCH                         |
|                                                                                                                                                      | TTI                            | 5 ms                            |
|                                                                                                                                                      | Coding type                    | TC                              |
|                                                                                                                                                      | CRC, bit                       | 24                              |
| NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-ehs PDU (see 3GPP TS 25.321 [38]). |                                |                                 |

6.11.5.4.9.1.2.1.2 Transport channel parameters for DCH

6.11.5.4.9.4.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.9.1.2.2 Physical channel parameters

6.11.5.4.9.1.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.9.1.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.9.2 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.11.5.4.9.2.1 Uplink

6.11.5.4.9.2.1.1 Transport channel parameters

6.11.5.4.9.2.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.9.2.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.5.4.7.3.1.1.1.2, alt 2

6.11.5.4.9.2.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.9.1.1.1.1.1, alt 3

6.11.5.4.9.2.1.2 Physical channel parameters

6.11.5.4.9.2.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1

6.11.5.4.9.2.2 Downlink

6.11.5.4.9.2.2.1 Transport channel parameters

6.11.5.4.9.2.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.9.2.2.1.1.1 MAC-d flow#0 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.9.1.2.1.1.1

6.11.5.4.9.2.2.1.1.2 MAC-d flow#1 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.11.5.4.6.1.2.1.1.1, alt 2.

6.11.5.4.9.2.2.2 Physical channel parameters

6.11.5.4.9.2.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.9.2.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.9.3 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] with Flexible RLC and MAC-ehs SRBs for DCCH on E-DCH and HS-DSCH

6.11.5.4.9.3.1 Uplink

6.11.5.4.9.3.1.1 Transport channel parameters

6.11.5.4.9.3.1.1.1 Transport channel parameters for E-DCH

6.11.5.4.9.3.1.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.9.1.1.1.1.1, alt 3.

6.11.5.4.9.3.1.1.1.2 MAC-d flow#2 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.5.4.7.3.1.1.1.2, alt 2.

6.11.5.4.9.3.2.1.2 Physical channel parameters

6.11.5.4.9.3.2.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

6.11.5.4.9.3.2.2 Downlink

6.11.5.4.9.3.2.2.1 Transport channel parameters

6.11.5.4.9.3.2.2.1.1 Transport channel parameters for HS-DSCH

6.11.5.4.9.3.2.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.6.1.2.1.1.1, alt 3

6.11.5.4.9.3.2.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

See clause 6.11.5.4.7.4.2.1.1.2, alt 2.

#### 6.11.5.4.9.3.2.2.2 Physical channel parameters

See clause 6.11.5.4.1.2.2.2.

#### 6.11.5.4.9.3.2.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.11.5.4.6.1.2.2.2.

6.11.5.4.9.4 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + 3.4 kbps SRBs for DCCH on E-DCH and DL DCH

#### 6.11.5.4.9.4.1 Uplink

##### 6.11.5.4.9.4.1.1 Transport channel parameters

##### 6.11.5.4.9.4.1.1.1 Transport channel parameters for E-DCH

##### 6.11.5.4.9.4.1.1.1.1 MAC-d flow#1 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.5.4.7.3.1.1.1.2, alt 2.

##### 6.11.5.4.9.4.1.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.9.1.1.1.1.1, alt 3.

##### 6.11.5.4.9.4.1.1.1.3 MAC-d flow#3 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.9.1.1.1.1.1, alt 3.

##### 6.11.5.4.9.4.1.1.1.4 MAC-d flow#4 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

See clause 6.11.5.4.9.1.1.1.1.1, alt 3.

#### 6.11.5.4.9.4.1.2 Physical channel parameters

##### 6.11.5.4.9.4.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.5.4.7.1.1.2.1.

#### 6.11.5.4.9.4.2 Downlink

##### 6.11.5.4.9.4.2.1 Transport channel parameters

##### 6.11.5.4.9.4.2.1.1 Transport channel parameters for HS-DSCH

##### 6.11.5.4.9.4.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.9.1.2.1.1.1.

##### 6.11.5.4.9.4.2.1.1.2 MAC-d flow#2 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.9.1.2.1.1.1.

6.11.5.4.9.4.2.1.1.2 MAC-d flow#3 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.5.4.9.1.2.1.1.1.

6.11.5.4.9.4.2.1.2 Transport channel parameters for DCH

6.11.5.4.9.4.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.9.4.2.1.2.2 TFCS

See clause 6.10.3.4.1.2.2.1.2

6.11.5.4.9.4.2.2 Physical channel parameters

6.11.5.4.9.4.2.2.1 Physical channel parameters on DPCH

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.9.4.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.5.4.6.1.2.2.2.

## 6.11.6 Reference Radio Bearer configurations used in Radio Bearer testing for 7.68 Mcps TDD

### 6.11.6.1 RABs and signalling RBs

In the following clauses, the typical parameter sets are presented for reference RABs, signalling RBs and important combinations of them. The data rate given for each RAB is the maximum data rate that can be supported by that RAB.

NOTE: The granularity for each RAB needs to be clarified.

**Table 6.11.6.1.1: Prioritized RABs**

| #   | Traffic class <sup>[3]</sup> | SSD <sup>[3]</sup> | Max. rate, kbps                                     | CS/PS |
|-----|------------------------------|--------------------|-----------------------------------------------------|-------|
| 1   | Conversational               | Speech             | UL:12.2 DL:12.2                                     | CS    |
| 1a  | Conversational               | Speech             | UL: (12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75)    | CS    |
| 2   | Conversational               | Speech             | UL:10.2 DL:10.2                                     | CS    |
| 2a  | Conversational               | Speech             | UL:(10.2 , 6.7, 5.9, 4.75) DL:10.2, 6.7, 5.9, 4.75) | CS    |
| 3   | Conversational               | Speech             | UL:7.95 DL:7.95                                     | CS    |
| 4   | Conversational               | Speech             | UL:7.4 DL:7.4                                       | CS    |
| 4a  | Conversational               | Speech             | UL:(12.2 7.95 5.9 4.75, DL:(12.2 7.95 5.9 4.75)     | CS    |
| 5   | Conversational               | Speech             | UL:6.7 DL:6.7                                       | CS    |
| 6   | Conversational               | Speech             | UL:5.9 DL:5.9                                       | CS    |
| 7   | Conversational               | Speech             | UL:5.15 DL:5.15                                     | CS    |
| 8   | Conversational               | Speech             | UL:4.75 DL:4.75                                     | CS    |
| 9   | Conversational               | Unknown            | UL:28.8 DL:28.8                                     | CS    |
| 10  | Conversational               | Unknown            | UL:64 DL:64                                         | CS    |
| 11  | Conversational               | Unknown            | UL:32 DL:32                                         | CS    |
| 11a | Conversational               | Unknown            | UL:8 DL:8                                           | CS    |
| 12  | Streaming                    | Unknown            | UL:14.4 DL:14.4                                     | CS    |
| 13  | Streaming                    | Unknown            | UL:28.8 DL:28.8                                     | CS    |
| 14  | Streaming                    | Unknown            | UL:57.6 DL:57.6                                     | CS    |
| 15  | Void                         |                    |                                                     |       |
| 15a | Streaming                    | Unknown            | UL:16 DL:64                                         | PS    |
| 16  | Void                         |                    |                                                     |       |
| 17  | Void                         |                    |                                                     |       |
| 18  | Void                         |                    |                                                     |       |
| 19  | Void                         |                    |                                                     |       |
| 20  | Interactive or Background    | N/A                | UL:32 DL:8                                          | PS    |
| 20a | Interactive or Background    | N/A                | UL:8 DL:8                                           | PS    |



| #   | Traffic class <sup>[3]</sup> | SSD <sup>[3]</sup> | Max. rate, kbps | CS/PS |
|-----|------------------------------|--------------------|-----------------|-------|
| 20b | Interactive or Background    | N/A                | UL:16 DL:16     | PS    |
| 20c | Interactive or Background    | N/A                | UL:32 DL:32     | PS    |
| 21  | Void                         |                    |                 |       |
| 22  | Interactive or Background    | N/A                | UL:32 DL:64     | PS    |
| 23  | Interactive or Background    | N/A                | UL:64 DL:64     | PS    |
| 24  | Interactive or Background    | N/A                | UL:64 DL:128    | PS    |
| 25  | Interactive or Background    | N/A                | UL:128 DL:128   | PS    |
| 26  | Interactive or Background    | N/A                | UL:64 DL:384    | PS    |
| 27  | Interactive or Background    | N/A                | UL:128 DL:384   | PS    |
| 28  | Interactive or Background    | N/A                | UL:384 DL:384   | PS    |
| 29  | Interactive or Background    | N/A                | UL:64 DL:2048   | PS    |
| 30  | Interactive or Background    | N/A                | UL:128 DL:2048  | PS    |
| 31  | Void                         |                    |                 |       |
| 32  | Interactive or Background    | N/A                | UL:64 DL:256    | PS    |
| 33  | Interactive or Background    | N/A                | UL:0 DL:32      | PS    |
| 34  | Interactive or Background    | N/A                | UL:32 DL:0      | PS    |
| 35  | Interactive or Background    | N/A                | UL:64 DL:144    | PS    |
| 36  | Interactive or Background    | N/A                | UL:144 DL:144   | PS    |

Table 6.11.6.1.2: Signalling RBs

| #  | Maximum rate, kbps  | Logical channel | PhyCh onto which SRBs are mapped |
|----|---------------------|-----------------|----------------------------------|
| 1  | UL:1.7 DL:1.7       | DCCH            | DPCH                             |
| 2  | UL:3.4 DL:3.4       | DCCH            | DPCH                             |
| 3  | UL:13.6 DL:13.6     | DCCH            | DPCH                             |
| 4  | DL:27.2 (alt. 13.6) | DCCH            | SCCPCH                           |
| 5  | UL:16.8             | CCCH            | PRACH                            |
| 6  | DL:32 (alt. 16)     | CCCH            | SCCPCH                           |
| 7  | DL:33.6 (alt. 16.8) | BCCH            | SCCPCH                           |
| 8  | DL:12 (alt. 8)      | PCCH            | SCCPCH                           |
| 9  | UL:16.8             | SHCCH           | PRACH                            |
| 10 | UL:16.8             | SHCCH           | PRACH or PUSCH                   |
| 11 | DL:32 (alt. 16)     | SHCCH           | SCCPCH                           |
| 12 | DL:16               | SHCCH           | SCCPCH or PDSCH                  |

### 6.11.6.2 Combinations of RABs and Signalling RBs

In the present document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

NOTE: It is understood that for speech service the AMR mode may be operated asymmetrically for the uplink and downlink.

#### Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 1a) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe).
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB  
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB  
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Void.
- 19) Void.
- 20) Void.
- 21) Void.
- 22) Void..
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 24) Void..

- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 31) Interactive or background / UL:64 DL:256 kbps / PS RAB  
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB  
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35) Interactive or background / UL:64 DL:2 048 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Interactive or background / UL:128 DL:2 048 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 37) Interactive or background / UL:384 DL:2 048 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:32 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38a) Conversational / speech / 12.2 kbps / CS RAB  
+ Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38b) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background/ UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38c) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background/ UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38d) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background/ UL:64 DL:64 kbps / PS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38e) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:0 DL:0 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38f) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38g) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

- 38h) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38i) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38j) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 39) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:32 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 41) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:256 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:64 DL:384 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Interactive or background / UL:128 DL:2 048 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Void
- 47) Void
- 48) Void
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB  
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH

- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or Background / UL:16 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:64 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB  
+ Interactive or background / UL:128 DL:128 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Void.
- 55) Void
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 57) Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ Interactive or background / UL:64 DL:64 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 58) Streaming / unknown / UL:16 DL:64 kbps / PS RAB  
+ Interactive or background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 59) Reserved for future use
- 60) Reserved for future use
- 61) Conversational / unknown / UL:8 DL:8 kbps / PS RAB  
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH

#### Combinations on PDSCH, SCCPCH, PUSCH and PRACH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB  
+ UL: 3.4/16.8 DL:3.4/ 33.6 kbps SRBs for DCCH, CCCH and BCCH  
+ UL:16.8 DL: 16 kbps SRBs for SHCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB  
+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH  
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 3) Interactive or background / UL:64 DL:2 048 kbps / PS RAB  
+ UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH  
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 4) Interactive or background / UL:384 DL:2 048 kbps / PS RAB  
+ UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH  
+ UL: 16.8 DL: 16 kbps SRBs for SHCCH.

#### Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

- 1) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH  
+ Interactive or background / UL:64 DL:256 kbps / PS RAB  
+ UL:16.8 kbps SRBs for CCCH and SHCCH  
+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 2) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB  
+ UL:3.4 DL:3.4 kbps SRBs for DCCH  
+ Interactive or background / UL:64 DL:384 kbps / PS RAB

- + UL:16.8 kbps SRBs for CCCH and SHCCH
- + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:2 048 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

#### Combinations on SCCPCH

- 1) Stand-alone 12 kbps SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH
  - + SRB for BCCH.
- 2a) Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB
  - + SRBs for CCCH
  - + SRB for DCCH
  - + SRB for BCCH
- 2b) SRBs for CCCH
  - + SRB for DCCH
  - + SRB for BCCH
- 3) Interactive or background / DL:32 kbps / PS RAB
  - + SRB for PCCH
  - + SRB for CCCH
  - + SRBs for DCCH
  - + SRB for BCCH.
- 3a) SRB for PCCH
  - + SRB for CCCH
  - + SRB for DCCH
  - + SRB for BCCH
- 4) RB for CTCH
  - + SRB for CCCH
  - + SRB for BCCH

#### Combinations on PRACH

- 1) Interactive or background / UL:12.8 kbps / PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH.

#### Combinations on DPCH and HS-PDSCH

- 1) Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 2) Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 3) Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 5) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

- 6) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 7) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 8) Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 9) Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 10) Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)
- 11) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH (REL-5)

### 6.11.6.3 Example of linkage between RABs and services

RABs, which are included in the present document, can provide the services as shown in table 6.10.1.1: Traffic classes. Furthermore, the required BER for each RAB, which is assumed in the present document, is shown in table 6.11.6.3.1.

**Table 6.11.6.3.1: Example of linkage between RABs and services**

| Traffic class <sup>[3]</sup> | RAB                |                              |       | Residual BER <sup>[3]</sup>                                        | Services                                                     |
|------------------------------|--------------------|------------------------------|-------|--------------------------------------------------------------------|--------------------------------------------------------------|
|                              | SSD <sup>[3]</sup> | Max. rate, kbps              | CS/PS |                                                                    |                                                              |
| Conversational               | Speech             | UL:4.75-12.2<br>DL:4.75-12.2 | CS    | $5 \times 10^{-4}$ ,<br>$1 \times 10^{-3}$ ,<br>$5 \times 10^{-3}$ | AMR speech                                                   |
| Conversational               | Unknown            | UL:64 DL:64                  | CS    | $1 \times 10^{-4}$ or<br>$1 \times 10^{-6}$                        | UDI 1B, 64k 3G-324M <sup>[4]</sup>                           |
| Conversational               | Unknown            | UL:32 DL:32                  | CS    | $1 \times 10^{-4}$ or<br>$1 \times 10^{-6}$                        | 32k 3G-324M <sup>[4]</sup>                                   |
| Conversational               | Unknown            | UL:28.8 DL:28.8              | CS    | $1 \times 10^{-3}$                                                 | Transparent modem                                            |
| Streaming                    | Unknown            | UL:14.4 DL:14.4              | CS    | $1 \times 10^{-3}$                                                 | FAX <sup>[6]</sup>                                           |
| Streaming                    | Unknown            | UL:28.8 DL:28.8              | CS    | $1 \times 10^{-3}$                                                 | FAX <sup>[6]</sup><br>PIAFS 32 kbps                          |
| Streaming                    | Unknown            | UL:57.6 DL:57.6              | CS    | $1 \times 10^{-3}$                                                 | Modem <sup>[6]</sup> , FTM <sup>[5]</sup> ,<br>PIAFS 64 kbps |
| Streaming                    | Unknown            | UL:64-128 or<br>DL:64-384    | CS    | $1 \times 10^{-3}$ or<br>$1 \times 10^{-4}$                        | Streaming video, unidirectional                              |
| Interactive or Background    | N/A                | UL:32-384<br>DL:8-2048       | PS    | $1 \times 10^{-3}$ or<br>$1 \times 10^{-4}$                        | Packet                                                       |

NOTE 1: SMS can be provided via the signalling RB (DCCH) on DPCH or SCCPCH.

NOTE 2: CBS can be provided via the signalling RB (CTCH) on SCCPCH

NOTE 3: UDI *n*B can be provided via *n* RABs of conversational 64 kbps.

### 6.11.6.4 Typical radio parameter sets

NOTE The order of tables and MAC-d flow numbering in this section may be different than the RB IDs and MAC-d flow IDs as defined in default messages in section 9.

#### 6.11.6.4.1 Combinations on DPCH

##### 6.11.6.4.1.1 Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH

## 6.11.6.4.1.1.1 Uplink

## 6.11.6.4.1.1.1.1 Transport channel parameters

## 6.11.6.4.1.1.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

|              |                                                     |            |                                |       |                         |                        |
|--------------|-----------------------------------------------------|------------|--------------------------------|-------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB                                   |            | SRB#1                          | SRB#2 | SRB#3                   | SRB#4                  |
|              | User of Radio Bearer                                |            | RRC                            | RRC   | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC          | Logical channel type                                |            | DCCH                           | DCCH  | DCCH                    | DCCH                   |
|              | RLC mode                                            |            | UM                             | AM    | AM                      | AM                     |
|              | Payload sizes, bit                                  |            | 136                            | 128   | 128                     | 128                    |
|              | Max data rate, bps                                  |            | 1 700                          | 1 600 | 1 600                   | 1 600                  |
|              | AMD/UMD PDU header, bit                             |            | 8                              | 16    | 16                      | 16                     |
| MAC          | MAC header, bit                                     |            | 4                              | 4     | 4                       | 4                      |
|              | MAC multiplexing                                    |            | 4 logical channel multiplexing |       |                         |                        |
| Layer 1      | TrCH type                                           |            | DCH                            |       |                         |                        |
|              | TB sizes, bit                                       |            | 148 (alt. 0,148) (note)        |       |                         |                        |
|              | TFS                                                 | TF0, bits  | 0x148 (alt 1x0) (note)         |       |                         |                        |
|              |                                                     | TF1, bits  | 1x148                          |       |                         |                        |
|              | TTI, ms                                             |            | 80                             |       |                         |                        |
|              | Coding type                                         |            | CC 1/3                         |       |                         |                        |
|              | CRC, bit                                            |            | 16                             |       |                         |                        |
|              | Max number of bits/TTI before rate matching         |            | 516                            |       |                         |                        |
|              | Max number of bits/radio frame before rate matching |            | 65                             |       |                         |                        |
| RM attribute |                                                     | 155 to 185 |                                |       |                         |                        |

NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UTRAN.

## 6.11.6.4.1.1.1.1.2 TFCS

|           |                              |
|-----------|------------------------------|
| TFCS size | 2                            |
| TFCS      | SRBs for DCCH = (TF0), (TF1) |

NOTE: The first TFC is required for the alt. case, optional otherwise.

## 6.11.6.4.1.1.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 234                         |
|             | TFCI code word                       | 8 bits                      |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 1                           |

NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits.

## 6.11.6.4.1.1.2 Downlink

## 6.11.6.4.1.1.2.1 Transport channel parameters

## 6.11.6.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

|              |                                           |                                |              |                                  |                                 |
|--------------|-------------------------------------------|--------------------------------|--------------|----------------------------------|---------------------------------|
| Higher layer | RAB/signalling RB<br>User of Radio Bearer | SRB#1<br>RRC                   | SRB#2<br>RRC | SRB#3<br>NAS_DT<br>High priority | SRB#4<br>NAS_DT<br>Low priority |
| RLC          | Logical channel type                      | DCCH                           | DCCH         | DCCH                             | DCCH                            |
|              | RLC mode                                  | UM                             | AM           | AM                               | AM                              |
|              | Payload sizes, bit                        | 136                            | 128          | 128                              | 128                             |
|              | Max data rate, bps                        | 1 700                          | 1 600        | 1 600                            | 1 600                           |
|              | AMD/UMD PDU header, bit                   | 8                              | 16           | 16                               | 16                              |
| MAC          | MAC header, bit                           | 4                              | 4            | 4                                | 4                               |
|              | MAC multiplexing                          | 4 logical channel multiplexing |              |                                  |                                 |
| Layer 1      | TrCH type                                 | DCH                            |              |                                  |                                 |
|              | TB sizes, bit                             | 148 (alt. 0,148) (note)        |              |                                  |                                 |



|  |                                                                                         |           |                          |
|--|-----------------------------------------------------------------------------------------|-----------|--------------------------|
|  | TFS                                                                                     | TF0, bits | 0 x148 (alt. 1x0) (note) |
|  |                                                                                         | TF1, bits | 1x148                    |
|  | TTI, ms                                                                                 |           | 80                       |
|  | Coding type                                                                             |           | CC 1/3                   |
|  | CRC, bit                                                                                |           | 16                       |
|  | Max number of bits/TTI before rate matching                                             |           | 516                      |
|  | Max number of bits/radio frame before rate matching                                     |           | 65                       |
|  | RM attribute                                                                            |           | 155 to 185               |
|  | NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. |           |                          |

## 6.11.6.4.1.1.2.1.2 TFCS

|                                                                        |                              |
|------------------------------------------------------------------------|------------------------------|
| TFCS size                                                              | 2                            |
| TFCS                                                                   | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. |                              |

## 6.11.6.4.1.1.2.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 1024 chips                  |
|                                                                                               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 236 bits                    |
|                                                                                               | TFCI code word                       | 8 bits                      |
|                                                                                               | Puncturing limit                     | 1                           |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits. |                                      |                             |

## 6.11.6.4.1.1a Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe)

## 6.11.6.4.1.1a.1 Uplink

## 6.11.6.4.1.1a.1.1 Transport channel parameters

## 6.11.6.4.1.1a.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

|              |                                                     |           |                                |       |                      |                     |
|--------------|-----------------------------------------------------|-----------|--------------------------------|-------|----------------------|---------------------|
| Higher layer | RAB/signalling RB                                   |           | SRB#1                          | SRB#2 | SRB#3                | SRB#4               |
|              | User of Radio Bearer                                |           | RRC                            | RRC   | NAS_DT High priority | NAS_DT Low priority |
| RLC          | Logical channel type                                |           | DCCH                           | DCCH  | DCCH                 | DCCH                |
|              | RLC mode                                            |           | UM                             | AM    | AM                   | AM                  |
|              | Payload sizes, bit                                  |           | 136                            | 128   | 128                  | 128                 |
|              | Max data rate, bps                                  |           | 1 700                          | 1 600 | 1 600                | 1 600               |
|              | AMD/UMD PDU header, bit                             |           | 8                              | 16    | 16                   | 16                  |
| MAC          | MAC header, bit                                     |           | 4                              | 4     | 4                    | 4                   |
|              | MAC multiplexing                                    |           | 4 logical channel multiplexing |       |                      |                     |
| Layer 1      | TrCH type                                           |           | DCH                            |       |                      |                     |
|              | TB sizes, bit                                       |           | 148                            |       |                      |                     |
|              | TFS                                                 | TF0, bits | 0x148                          |       |                      |                     |
|              |                                                     | TF1, bits | 1x148                          |       |                      |                     |
|              | TTI, ms                                             |           | 20                             |       |                      |                     |
|              | Coding type                                         |           | CC 1/3                         |       |                      |                     |
|              | CRC, bit                                            |           | 16                             |       |                      |                     |
|              | Max number of bits/TTI before rate matching         |           | 516                            |       |                      |                     |
|              | Max number of bits/radio frame before rate matching |           | 258                            |       |                      |                     |
|              |                                                     |           |                                |       |                      |                     |

## 6.11.6.4.1.1a.1.1.2 TFCS

|           |                              |
|-----------|------------------------------|
| TFCS size | 2                            |
| TFCS      | SRBs for DCCH = (TF0), (TF1) |

## 6.11.6.4.1.1a.1.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 512 chips                   |
|                                                                                               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 266                         |
|                                                                                               | TFCl code word                       | 8 bits                      |
|                                                                                               | TPC                                  | 2 bits                      |
|                                                                                               | Puncturing Limit                     | 1                           |
|                                                                                               | Repetition period                    | 8                           |
|                                                                                               | Repetition length                    | 2                           |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bits. |                                      |                             |

## 6.11.6.4.1.1a.2 Downlink

## 6.11.6.4.1.1a.2.1 Transport channel parameters

## 6.11.6.4.1.1a.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

|              |                                                     |           |                                |       |                         |                        |
|--------------|-----------------------------------------------------|-----------|--------------------------------|-------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB                                   |           | SRB#1                          | SRB#2 | SRB#3                   | SRB#4                  |
|              | User of Radio Bearer                                |           | RRC                            | RRC   | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC          | Logical channel type                                |           | DCCH                           | DCCH  | DCCH                    | DCCH                   |
|              | RLC mode                                            |           | UM                             | AM    | AM                      | AM                     |
|              | Payload sizes, bit                                  |           | 136                            | 128   | 128                     | 128                    |
|              | Max data rate, bps                                  |           | 1 700                          | 1 600 | 1 600                   | 1 600                  |
|              | AMD/UMD PDU header, bit                             |           | 8                              | 16    | 16                      | 16                     |
| MAC          | MAC header, bit                                     |           | 4                              | 4     | 4                       | 4                      |
|              | MAC multiplexing                                    |           | 4 logical channel multiplexing |       |                         |                        |
| Layer 1      | TrCH type                                           |           | DCH                            |       |                         |                        |
|              | TB sizes, bit                                       |           | 148                            |       |                         |                        |
|              | TFS                                                 | TF0, bits | 0 x148                         |       |                         |                        |
|              |                                                     | TF1, bits | 1x148                          |       |                         |                        |
|              | TTI, ms                                             |           | 20                             |       |                         |                        |
|              | Coding type                                         |           | CC 1/3                         |       |                         |                        |
|              | CRC, bit                                            |           | 16                             |       |                         |                        |
|              | Max number of bits/TTI before rate matching         |           | 516                            |       |                         |                        |
|              | Max number of bits/radio frame before rate matching |           | 258                            |       |                         |                        |

## 6.11.6.4.1.1a.2.1.2 TFCS

|                                  |                              |
|----------------------------------|------------------------------|
| TFCS size                        | 2                            |
| TFCS                             | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is optional. |                              |

## 6.11.6.4.1.1a.2.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 512 chips                   |
|                                                                                               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 268 bits                    |
|                                                                                               | TFCl code word                       | 8 bits                      |
|                                                                                               | Puncturing limit                     | 1                           |
|                                                                                               | Repetition period                    | 8                           |
|                                                                                               | Repetition length                    | 2                           |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bits. |                                      |                             |

## 6.11.6.4.1.2 Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.2.1 Uplink

## 6.11.6.4.1.2.1.1 Transport channel parameters

## 6.11.6.4.1.2.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

|                                                                                            |                                                     |           |                                |       |                         |                        |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|--------------------------------|-------|-------------------------|------------------------|
| Higher layer                                                                               | RAB/signalling RB                                   |           | SRB#1                          | SRB#2 | SRB#3                   | SRB#4                  |
|                                                                                            | User of Radio Bearer                                |           | RRC                            | RRC   | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC                                                                                        | Logical channel type                                |           | DCCH                           | DCCH  | DCCH                    | DCCH                   |
|                                                                                            | RLC mode                                            |           | UM                             | AM    | AM                      | AM                     |
|                                                                                            | Payload sizes, bit                                  |           | 136                            | 128   | 128                     | 128                    |
|                                                                                            | Max data rate, bps                                  |           | 3 400                          | 3 200 | 3 200                   | 3 200                  |
|                                                                                            | AMD/UMD PDU header, bit                             |           | 8                              | 16    | 16                      | 16                     |
| MAC                                                                                        | MAC header, bit                                     |           | 4                              | 4     | 4                       | 4                      |
|                                                                                            | MAC multiplexing                                    |           | 4 logical channel multiplexing |       |                         |                        |
| Layer 1                                                                                    | TrCH type                                           |           | DCH                            |       |                         |                        |
|                                                                                            | TB sizes, bit                                       |           | 148 (alt. 0,148) (note)        |       |                         |                        |
|                                                                                            | TFS                                                 | TF0, bits | 0x148 (alt. 1x0) (note)        |       |                         |                        |
|                                                                                            |                                                     | TF1, bits | 1x148                          |       |                         |                        |
|                                                                                            | TTI, ms                                             |           | 40                             |       |                         |                        |
|                                                                                            | Coding type                                         |           | CC 1/3                         |       |                         |                        |
|                                                                                            | CRC, bit                                            |           | 16                             |       |                         |                        |
|                                                                                            | Max number of bits/TTI before rate matching         |           | 516                            |       |                         |                        |
|                                                                                            | Max number of bits/radio frame before rate matching |           | 129                            |       |                         |                        |
|                                                                                            | RM attribute                                        |           | 155 to 165                     |       |                         |                        |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UTRAN. |                                                     |           |                                |       |                         |                        |

## 6.11.6.4.1.2.1.1.2 TFCS

|                                                                        |                              |
|------------------------------------------------------------------------|------------------------------|
| TFCS size                                                              | 2                            |
| TFCS                                                                   | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. |                              |

## 6.11.6.4.1.2.1.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 1024 chips                  |
|                                                                                               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 234 bits                    |
|                                                                                               | TFCl code word                       | 8 bits                      |
|                                                                                               | TPC                                  | 2 bit                       |
|                                                                                               | Puncturing Limit                     | 1                           |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bits. |                                      |                             |

## 6.11.6.4.1.2.2 Downlink

## 6.11.6.4.1.2.2.1 Transport channel parameters

## 6.11.6.4.1.2.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

|              |                                           |                                |              |                                  |                                 |
|--------------|-------------------------------------------|--------------------------------|--------------|----------------------------------|---------------------------------|
| Higher layer | RAB/signalling RB<br>User of Radio Bearer | SRB#1<br>RRC                   | SRB#2<br>RRC | SRB#3<br>NAS_DT<br>High priority | SRB#4<br>NAS_DT<br>Low priority |
| RLC          | Logical channel type                      | DCCH                           | DCCH         | DCCH                             | DCCH                            |
|              | RLC mode                                  | UM                             | AM           | AM                               | AM                              |
|              | Payload sizes, bit                        | 136                            | 128          | 128                              | 128                             |
|              | Max data rate, bps                        | 3 400                          | 3 200        | 3 200                            | 3 200                           |
|              | AMD/UMD PDU header, bit                   | 8                              | 16           | 16                               | 16                              |
| MAC          | MAC header, bit                           | 4                              | 4            | 4                                | 4                               |
|              | MAC multiplexing                          | 4 logical channel multiplexing |              |                                  |                                 |
| Layer 1      | TrCH type                                 | DCH                            |              |                                  |                                 |
|              | TB sizes, bit                             | 148 (alt. 0, 148) (note)       |              |                                  |                                 |
|              | TFS                                       | 0x148 (alt. 1x0) (note)        |              |                                  |                                 |
|              | TF0, bits                                 | 1x148                          |              |                                  |                                 |
|              | TF1, bits                                 |                                |              |                                  |                                 |
|              | TTI, ms                                   | 40                             |              |                                  |                                 |

|                                                                                         |                                                     |            |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------|------------|
|                                                                                         | Coding type                                         | CC 1/3     |
|                                                                                         | CRC, bit                                            | 16         |
|                                                                                         | Max number of bits/TTI before rate matching         | 516        |
|                                                                                         | Max number of bits/radio frame before rate matching | 129        |
|                                                                                         | RM attribute                                        | 155 to 165 |
| NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE. |                                                     |            |

## 6.11.6.4.1.2.2.1.2 TFCS

|                                                                        |                              |
|------------------------------------------------------------------------|------------------------------|
| TFCS size                                                              | 2                            |
| TFCS                                                                   | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. |                              |

## 6.11.6.4.1.2.2.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 1024 chips                  |
|                                                                                               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 236                         |
|                                                                                               | TFCl code word                       | 8 bits                      |
|                                                                                               | Puncturing limit                     | 1                           |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bits. |                                      |                             |

## 6.11.6.4.1.3 Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH

## 6.11.6.4.1.3.1 Uplink

## 6.11.6.4.1.3.1.1 Transport channel parameters

## 6.11.6.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

| Higher layer | RAB/signalling RB                                   |           | SRB#1                          | SRB#2  | SRB#3                   | SRB#4                  |
|--------------|-----------------------------------------------------|-----------|--------------------------------|--------|-------------------------|------------------------|
|              | User of Radio Bearer                                |           | RRC                            | RRC    | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC          | Logical channel type                                |           | DCCH                           | DCCH   | DCCH                    | DCCH                   |
|              | RLC mode                                            |           | UM                             | AM     | AM                      | AM                     |
|              | Payload sizes, bit                                  |           | 136                            | 128    | 128                     | 128                    |
|              | Max data rate, bps                                  |           | 13 600                         | 12 800 | 12 800                  | 12 800                 |
|              | AMD/UMD PDU header, bit                             |           | 8                              | 16     | 16                      | 16                     |
| MAC          | MAC header, bit                                     |           | 4                              | 4      | 4                       | 4                      |
|              | MAC multiplexing                                    |           | 4 logical channel multiplexing |        |                         |                        |
| Layer 1      | TrCH type                                           |           | DCH                            |        |                         |                        |
|              | TB sizes, bit                                       |           | 148 (alt. 0,148) (note)        |        |                         |                        |
|              | TFS                                                 | TF0, bits | 0x148 (alt. 1x0) (note)        |        |                         |                        |
|              |                                                     | TF1, bits | 1x148                          |        |                         |                        |
|              | TTI, ms                                             |           | 10                             |        |                         |                        |
|              | Coding type                                         |           | CC 1/3                         |        |                         |                        |
|              | CRC, bit                                            |           | 16                             |        |                         |                        |
|              | Max number of bits/TTI before rate matching         |           | 516                            |        |                         |                        |
|              | Max number of bits/radio frame before rate matching |           | 516                            |        |                         |                        |

## 6.11.6.4.1.3.1.1.2 TFCS

|                                                                        |                              |
|------------------------------------------------------------------------|------------------------------|
| TFCS size                                                              | 2                            |
| TFCS                                                                   | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. |                              |

## 6.11.6.4.1.3.1.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 1024 chips                  |
|                                                                                               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 468 bits                    |
|                                                                                               | TFCl code word                       | 8 bits                      |
|                                                                                               | TPC                                  | 2 bits                      |
|                                                                                               | Puncturing Limit                     | 0.88                        |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bits. |                                      |                             |

## 6.11.6.4.1.3.2 Downlink

## 6.11.6.4.1.3.2.1 Transport channel parameters

## 6.11.6.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

|              |                                                     |           |                                |        |                         |                        |
|--------------|-----------------------------------------------------|-----------|--------------------------------|--------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB                                   |           | SRB#1                          | SRB#2  | SRB#3                   | SRB#4                  |
|              | User of Radio Bearer                                |           | RRC                            | RRC    | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC          | Logical channel type                                |           | DCCH                           | DCCH   | DCCH                    | DCCH                   |
|              | RLC mode                                            |           | UM                             | AM     | AM                      | AM                     |
|              | Payload sizes, bit                                  |           | 136                            | 128    | 128                     | 128                    |
|              | Max data rate, bps                                  |           | 13 600                         | 12 800 | 12 800                  | 12 800                 |
|              | AMD/UMD PDU header, bit                             |           | 8                              | 16     | 16                      | 16                     |
| MAC          | MAC header, bit                                     |           | 4                              | 4      | 4                       | 4                      |
|              | MAC multiplexing                                    |           | 4 logical channel multiplexing |        |                         |                        |
| Layer 1      | TrCH type                                           |           | DCH                            |        |                         |                        |
|              | TB sizes, bit                                       |           | 148 (alt. 0,148) (note)        |        |                         |                        |
|              | TFS                                                 | TF0, bits | 0x148 (alt. 1x0) (note)        |        |                         |                        |
|              |                                                     | TF1, bits | 1x148                          |        |                         |                        |
|              | TTI, ms                                             |           | 10                             |        |                         |                        |
|              | Coding type                                         |           | CC 1/3                         |        |                         |                        |
|              | CRC, bit                                            |           | 16                             |        |                         |                        |
|              | Max number of bits/TTI before rate matching         |           | 516                            |        |                         |                        |
|              | Max number of bits/radio frame before rate matching |           | 516                            |        |                         |                        |

NOTE: Alternative parameters enable the measurement "transport channel BLER" in the UE.

## 6.11.6.4.1.3.2.1.2 TFCS

|                                                                        |                              |
|------------------------------------------------------------------------|------------------------------|
| TFCS size                                                              | 2                            |
| TFCS                                                                   | SRBs for DCCH = (TF0), (TF1) |
| NOTE: The first TFC is required for the alt. case, optional otherwise. |                              |

## 6.11.6.4.1.3.2.2 Physical channel parameters

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 1024 chips                   |
|                                                                                               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 480 bits                     |
|                                                                                               | TFCl code word                       | 8 bits                       |
|                                                                                               | Puncturing limit                     | 0.92                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 4 bits. |                                      |                              |

6.11.6.4.1.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.4.1 Uplink

6.11.6.4.1.4.1.1 Transport channel parameters

6.11.6.4.1.4.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                   | RAB subflow #1             | RAB subflow #2 | RAB subflow #3 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------|----------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                | DTCH                       |                |                |
|                                                                                                                                                                                                                           | RLC mode                                            | TM                         | TM             | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                  | 39, 81<br>(alt. 0, 39, 81) | 103            | 60             |
|                                                                                                                                                                                                                           | Max data rate, bps                                  | 12 200                     |                |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                 | 0                          |                |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                     | 0                          |                |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                    | N/A                        |                |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                           | DCH                        | DCH            | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                       | 39, 81<br>(alt. 0, 39, 81) | 103            | 60             |
|                                                                                                                                                                                                                           | TFS                                                 | TF0, bits                  | 0x103          | 0x60           |
|                                                                                                                                                                                                                           |                                                     | TF1, bits                  | 1x103          | 1x60           |
|                                                                                                                                                                                                                           |                                                     | TF2, bits                  | 1x81           | N/A            |
|                                                                                                                                                                                                                           | TTI, ms                                             | 20                         | 20             | 20             |
|                                                                                                                                                                                                                           | Coding type                                         | CC 1/3                     | CC 1/3         | CC 1/2         |
|                                                                                                                                                                                                                           | CRC, bit                                            | 12                         | N/A            | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         | 303                        | 333            | 136            |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching | 152                        | 167            | 68             |
| RM attribute                                                                                                                                                                                                              |                                                     | 180 to 220                 | 170 to 210     | 215 to 256     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                            |                |                |

6.11.6.4.1.4.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.4.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                                                             |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                               |

6.11.6.4.1.4.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.72                        |

6.11.6.4.1.4.2 Downlink

6.11.6.4.1.4.2.1 Transport channel parameters

6.11.6.4.1.4.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 | RAB subflow #3 |
|--------------|-------------------|----------------|----------------|----------------|
|--------------|-------------------|----------------|----------------|----------------|

|         |                                                     |           |                           |            |            |
|---------|-----------------------------------------------------|-----------|---------------------------|------------|------------|
| RLC     | Logical channel type                                |           | DTCH                      |            |            |
|         | RLC mode                                            |           | TM                        | TM         | TM         |
|         | Payload sizes, bit                                  |           | 39,81 (alt. 0, 39, 81)    | 103        | 60         |
|         | Max data rate, bps                                  |           | 12 200                    |            |            |
|         | TrD PDU header, bit                                 |           | 0                         |            |            |
| MAC     | MAC header, bit                                     |           | 0                         |            |            |
|         | MAC multiplexing                                    |           | N/A                       |            |            |
| Layer 1 | TrCH type                                           |           | DCH                       | DCH        | DCH        |
|         | TB sizes, bit                                       |           | 39,81 (alt. 0,39,81)      | 103        | 60         |
|         | TFS                                                 | TF0, bits | 0x81 (alt. 1x0)<br>(note) | 0x103      | 0x60       |
|         |                                                     | TF1, bits | 1x39                      | 1x103      | 1x60       |
|         |                                                     | TF2, bits | 1x81                      | N/A        | N/A        |
|         | TTI, ms                                             |           | 20                        | 20         | 20         |
|         | Coding type                                         |           | CC 1/3                    | CC 1/3     | CC 1/2     |
|         | CRC, bit                                            |           | 12                        | N/A        | N/A        |
|         | Max number of bits/TTI after channel coding         |           | 303                       | 333        | 136        |
|         | Max number of bits/radio frame before rate matching |           | 152                       | 167        | 68         |
|         | RM attribute                                        |           | 180 to 220                | 170 to 210 | 215 to 256 |

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

#### 6.11.6.4.1.4.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.4.2.1.3 TFCS

|           |                                                                                                                                                                                              |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                            |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                           |

#### 6.11.6.4.1.4.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCl code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.76                         |

#### 6.11.6.4.1.4a Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.4a.1 Uplink

##### 6.11.6.4.1.4a.1.1 Transport channel parameters

##### 6.11.6.4.1.4a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB    | RAB subflow #1                                     | RAB subflow #2  | RAB subflow #3 |
|--------------|----------------------|----------------------------------------------------|-----------------|----------------|
| RLC          | Logical channel type | DTCH                                               |                 |                |
|              | RLC mode             | TM                                                 | TM              | TM             |
|              | Payload sizes, bit   | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60             |
|              | Max data rate, bps   | 12 200                                             |                 |                |
|              | TrD PDU header, bit  | 0                                                  |                 |                |
| MAC          | MAC header, bit      | 0                                                  |                 |                |
|              | MAC multiplexing     | N/A                                                |                 |                |
| Layer 1      | TrCH type            | DCH                                                | DCH             | DCH            |

|                                                                                                                                                                                                                           |           |                                                    |                 |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------|-----------------|------------|
| TB sizes, bit                                                                                                                                                                                                             |           | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60         |
| TFS                                                                                                                                                                                                                       | TF0, bits | 0x81(alt. 1x0) (note)                              | 0x103           | 0x60       |
|                                                                                                                                                                                                                           | TF1, bits | 1x39                                               | 1x53            | 1x60       |
|                                                                                                                                                                                                                           | TF2 bits  | 1x42                                               | 1x63            | N/A        |
|                                                                                                                                                                                                                           | TF3, bits | 1x55                                               | 1x84            | N/A        |
|                                                                                                                                                                                                                           | TF4, bits | 1x75                                               | 1x103           | N/A        |
|                                                                                                                                                                                                                           | TF5, bits | 1x81                                               | N/A             | N/A        |
| TTI, ms                                                                                                                                                                                                                   |           | 20                                                 | 20              | 20         |
| Coding type                                                                                                                                                                                                               |           | CC 1/3                                             | CC 1/3          | CC 1/2     |
| CRC, bit                                                                                                                                                                                                                  |           | 12                                                 | N/A             | N/A        |
| Max number of bits/TTI after channel coding                                                                                                                                                                               |           | 303                                                | 333             | 136        |
| Max number of bits/radio frame before rate matching                                                                                                                                                                       |           | 152                                                | 167             | 68         |
| RM attribute                                                                                                                                                                                                              |           | 180 to 220                                         | 170 to 210      | 215 to 256 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |           |                                                    |                 |            |

#### 6.11.6.4.1.4a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.4a.1.1.3 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                                                                                               |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),<br>(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                  |

#### 6.11.6.4.1.4a.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.72                        |

#### 6.11.6.4.1.4a.2 Downlink

#### 6.11.6.4.1.4a.2.1 Transport channel parameters

#### 6.11.6.4.1.4a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB    | RAB subflow #1                                     | RAB subflow #2  | RAB subflow #3 |
|--------------|----------------------|----------------------------------------------------|-----------------|----------------|
| RLC          | Logical channel type | DTCH                                               |                 |                |
|              | RLC mode             | TM                                                 | TM              | TM             |
|              | Payload sizes, bit   | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60             |
|              | Max data rate, bps   | 12 200                                             |                 |                |
|              | TrD PDU header, bit  | 0                                                  |                 |                |
| MAC          | MAC header, bit      | 0                                                  |                 |                |
|              | MAC multiplexing     | N/A                                                |                 |                |
| Layer 1      | TrCH type            | DCH                                                | DCH             | DCH            |
|              | TB sizes, bit        | 39, 42, 55, 75, 81<br>(alt. 0, 39, 42, 55, 75, 81) | 53, 63, 84, 103 | 60             |
|              | TFS                  | TF0, bits                                          | 0x103           | 0x60           |
|              |                      | TF1, bits                                          | 1x39            | 1x60           |
|              |                      | TF2, bits                                          | 1x42            | N/A            |



|                                                                                                                                                                                                                           |                                                     |           |            |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|------------|------------|------------|
|                                                                                                                                                                                                                           |                                                     | TF3, bits | 1x55       | 1x84       | N/A        |
|                                                                                                                                                                                                                           |                                                     | TF4, bits | 1x75       | 1x103      | N/A        |
|                                                                                                                                                                                                                           |                                                     | TF5, bits | 1x81       | N/A        | N/A        |
|                                                                                                                                                                                                                           | TTI, ms                                             |           | 20         | 20         | 20         |
|                                                                                                                                                                                                                           | Coding type                                         |           | CC 1/3     | CC 1/3     | CC 1/2     |
|                                                                                                                                                                                                                           | CRC, bit                                            |           | 12         | N/A        | N/A        |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         |           | 303        | 333        | 136        |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching |           | 152        | 167        | 68         |
|                                                                                                                                                                                                                           | RM attribute                                        |           | 180 to 220 | 170 to 210 | 215 to 256 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |           |            |            |            |

#### 6.11.6.4.1.4a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.4a.2.1.3 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                                                                                               |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),<br>(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                  |

#### 6.11.6.4.1.4a.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCl code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.76                         |

#### 6.11.6.4.1.5 Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.5.1 Uplink

##### 6.11.6.4.1.5.1.1 Transport channel parameters

##### 6.11.6.4.1.5.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 kbps / CS RAB

| Higher layer | RAB/Signalling RB    |           | RAB subflow #1             | RAB subflow #2 | RAB subflow #3 |
|--------------|----------------------|-----------|----------------------------|----------------|----------------|
| RLC          | Logical channel type |           | DTCH                       |                |                |
|              | RLC mode             |           | TM                         | TM             | TM             |
|              | Payload sizes, bit   |           | 39, 65<br>(alt. 0, 39, 65) | 99             | 40             |
|              | Max data rate, bps   |           | 10 200                     |                |                |
|              | TrD PDU header, bit  |           | 0                          |                |                |
| MAC          | MAC header, bit      |           | 0                          |                |                |
|              | MAC multiplexing     |           | N/A                        |                |                |
| Layer 1      | TrCH type            |           | DCH                        | DCH            | DCH            |
|              | TB sizes, bit        |           | 39, 65<br>(alt. 0, 39, 65) | 99             | 40             |
|              | TFS                  | TF0, bits | 0x65 (alt. 1x0)<br>(note)  | 0x99           | 0x40           |
|              |                      | TF1, bits | 1x39                       | 1x99           | 1x40           |
|              |                      | TF2, bits | 1x65                       | N/A            | N/A            |
|              | TTI, ms              |           | 20                         | 20             | 20             |
|              | Coding type          |           | CC 1/3                     | CC 1/3         | CC 1/2         |
|              | CRC, bit             |           | 12                         | N/A            | N/A            |

|                                                                                                                                                                                                                           |                                                     |            |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|------------|------------|
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         | 255        | 321        | 96         |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching | 128        | 161        | 48         |
|                                                                                                                                                                                                                           | RM attribute                                        | 180 to 220 | 170 to 210 | 215 to 256 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |            |            |            |

#### 6.11.6.4.1.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.5.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                                                             |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                               |

#### 6.11.6.4.1.5.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.40                        |

#### 6.11.6.4.1.5.2 Downlink

#### 6.11.6.4.1.5.2.1 Transport channel parameters

#### 6.11.6.4.1.5.2.1.1 Transport channel parameters for Conversational / speech / DL:10.2 kbps / CS RAB

| Higher layer                                                                                                                                                                           | RAB/Signalling RB                                   | RAB subflow #1         | RAB subflow #2 | RAB subflow #3 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------|----------------|----------------|
| RLC                                                                                                                                                                                    | Logical channel type                                | DTCH                   |                |                |
|                                                                                                                                                                                        | RLC mode                                            | TM                     | TM             | TM             |
|                                                                                                                                                                                        | Payload sizes, bit                                  | 39,65 (alt. 0, 39, 65) | 99             | 40             |
|                                                                                                                                                                                        | Max data rate, bps                                  | 10 200                 |                |                |
|                                                                                                                                                                                        | TrD PDU header, bit                                 | 0                      |                |                |
| MAC                                                                                                                                                                                    | MAC header, bit                                     | 0                      |                |                |
|                                                                                                                                                                                        | MAC multiplexing                                    | N/A                    |                |                |
| Layer 1                                                                                                                                                                                | TrCH type                                           | DCH                    | DCH            | DCH            |
|                                                                                                                                                                                        | TB sizes, bit                                       | 39, 65 (alt.0,39,65)   | 99             | 40             |
|                                                                                                                                                                                        | TFS                                                 | 0x65 (alt,1x0) (note)  |                |                |
|                                                                                                                                                                                        |                                                     | TF0, bits              | 0x99           | 0x40           |
|                                                                                                                                                                                        |                                                     | TF1, bits              | 1x39           | 1x40           |
|                                                                                                                                                                                        | TF2, bits                                           | 1x65                   | N/A            | N/A            |
|                                                                                                                                                                                        |                                                     | 20                     | 20             | 20             |
|                                                                                                                                                                                        |                                                     | CC 1/3                 | CC 1/3         | CC 1/2         |
|                                                                                                                                                                                        | Coding type                                         | CC 1/3                 | CC 1/3         | CC 1/2         |
|                                                                                                                                                                                        | CRC, bit                                            | 12                     | N/A            | N/A            |
|                                                                                                                                                                                        | Max number of bits/TTI after channel coding         | 255                    | 321            | 96             |
|                                                                                                                                                                                        | Max number of bits/radio frame before rate matching | 128                    | 161            | 48             |
|                                                                                                                                                                                        | RM attribute                                        | 180 to 220             | 170 to 210     | 215 to 256     |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                        |                |                |

#### 6.11.6.4.1.5.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.5.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                                                             |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                               |

## 6.11.6.4.1.5.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                  |
|               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCl code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.40                        |

6.11.6.4.1.5a Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.5a.1 Uplink

6.11.6.4.1.5a.1.1 Transport channel parameters

6.11.6.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB                                   | RAB subflow #1                                     | RAB subflow #2         | RAB subflow #3 |
|--------------|-----------------------------------------------------|----------------------------------------------------|------------------------|----------------|
| RLC          | Logical channel type                                | DTCH                                               |                        |                |
|              | RLC mode                                            | TM                                                 | TM                     | TM             |
|              | Payload sizes, bit                                  | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55, 58, 65) | 53, 63, 76, 99         | 40             |
|              | Max data rate, bps                                  | 10 200                                             |                        |                |
|              | TrD PDU header, bit                                 | 0                                                  |                        |                |
| MAC          | MAC header, bit                                     | 0                                                  |                        |                |
|              | MAC multiplexing                                    | N/A                                                |                        |                |
| Layer 1      | TrCH type                                           | DCH                                                | DCH                    | DCH            |
|              | TB sizes, bit                                       | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55, 58, 65) | 53, 63, 76, 99         | 40             |
|              | TFS                                                 | TF0, bits                                          | 0x65 (alt. 1x0) (note) | 0x99           |
|              |                                                     | TF1, bits                                          | 1x39                   | 1x53           |
|              |                                                     | TF2, bits                                          | 1x42                   | 1x63           |
|              |                                                     | TF3, bits                                          | 1x55                   | 1x76           |
|              |                                                     | TF4, bits                                          | 1x58                   | 1x99           |
|              |                                                     | TF5, bits                                          | 1x65                   | N/A            |
|              | TTI, ms                                             | 20                                                 | 20                     | 20             |
|              | Coding type                                         | CC 1/3                                             | CC 1/3                 | CC 1/2         |
|              | CRC, bit                                            | 12                                                 | N/A                    | N/A            |
|              | Max number of bits/TTI after channel coding         | 255                                                | 321                    | 96             |
|              | Max number of bits/radio frame before rate matching | 128                                                | 161                    | 48             |
|              | RM attribute                                        | 180 to 220                                         | 170 to 210             | 215 to 256     |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).

6.11.6.4.1.5a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.5a.1.1.3 TFCS

|           |                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                              |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=<br>(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF0, TF0), (TF3, TF2, TF0, TF0), |

|       |                                                                                                                                                           |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                         |

#### 6.11.6.4.1.5a.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.40                        |

#### 6.11.6.4.1.5a.2 Downlink

##### 6.11.6.4.1.5a.2.1 Transport channel parameters

##### 6.11.6.4.1.5a.2.1.1 Transport channel parameters for Conversational / speech / DL: DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                   |           | RAB subflow #1                                     | RAB subflow #2    | RAB subflow #3 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------|----------------------------------------------------|-------------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                |           | DTCH                                               |                   |                |
|                                                                                                                                                                                                                           | RLC mode                                            |           | TM                                                 | TM                | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                  |           | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55, 58, 65) | 0, 53, 63, 76, 99 | 40             |
|                                                                                                                                                                                                                           | Max data rate, bps                                  |           | 10 200                                             |                   |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                 |           | 0                                                  |                   |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                     |           | 0                                                  |                   |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                    |           | N/A                                                |                   |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                           |           | DCH                                                | DCH               | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                       |           | 39, 42, 55, 58, 65<br>(alt. 0, 39, 42, 55, 58, 65) | 0, 53, 63, 76, 99 | 40             |
|                                                                                                                                                                                                                           | TFS                                                 | TF0, bits | 0x65 (alt. 1x0) (note)                             | 0x99              | 0x40           |
|                                                                                                                                                                                                                           |                                                     | TF1, bits | 1x39                                               | 1x53              | 1x40           |
|                                                                                                                                                                                                                           |                                                     | TF2, bits | 1x42                                               | 1x63              | N/A            |
|                                                                                                                                                                                                                           |                                                     | TF3, bits | 1x55                                               | 1x76              | N/A            |
|                                                                                                                                                                                                                           |                                                     | TF4, bits | 1x58                                               | 1x99              | N/A            |
|                                                                                                                                                                                                                           |                                                     | TF5, bits | 1x65                                               | N/A               | N/A            |
|                                                                                                                                                                                                                           | TTI, ms                                             |           | 20                                                 | 20                | 20             |
|                                                                                                                                                                                                                           | Coding type                                         |           | CC 1/3                                             | CC 1/3            | CC 1/2         |
|                                                                                                                                                                                                                           | CRC, bit                                            |           | 12                                                 | N/A               | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         |           | 255                                                | 321               | 96             |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching |           | 128                                                | 161               | 48             |
|                                                                                                                                                                                                                           | RM attribute                                        |           | 180 to 220                                         | 170 to 210        | 215 to 256     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |           |                                                    |                   |                |

##### 6.11.6.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

##### 6.11.6.4.1.5a.2.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                              |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=<br>(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),<br>(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                               |

## 6.11.6.4.1.5a.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 1 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                     |
|               | TFCl code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.40                         |

## 6.11.6.4.1.6 Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.6.1 Uplink

## 6.11.6.4.1.6.1.1 Transport channel parameters

## 6.11.6.4.1.6.1.1.1 Transport channel parameters for Conversational / speech / UL:7.95 kbps / CS RAB

| Higher layer | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2 |
|--------------|-----------------------------------------------------|-------------------------|----------------|
| RLC          | Logical channel type                                | DTCH                    |                |
|              | RLC mode                                            | TM                      | TM             |
|              | Payload sizes, bit                                  | 39, 75 (alt. 0, 39, 75) | 84             |
|              | Max data rate, bps                                  | 7 950                   |                |
|              | TrD PDU header, bit                                 | 0                       |                |
| MAC          | MAC header, bit                                     | 0                       |                |
|              | MAC multiplexing                                    | N/A                     |                |
| Layer 1      | TrCH type                                           | DCH                     | DCH            |
|              | TB sizes, bit                                       | 39, 75 (alt. 0, 39, 75) | 84             |
|              | TFS                                                 | 0x75 (alt. 1x0) (note)  |                |
|              |                                                     | 0x84                    |                |
|              |                                                     | 1x39                    |                |
|              | TF1, bits                                           | 1x75                    |                |
|              |                                                     | N/A                     |                |
|              |                                                     | 20                      |                |
|              | TTI, ms                                             | 20                      |                |
|              | Coding type                                         | CC 1/3                  |                |
|              | CRC, bit                                            | 12                      |                |
|              | Max number of bits/TTI after channel coding         | 285                     |                |
|              | Max number of bits/radio frame before rate matching | 143                     |                |
|              | RM attribute                                        | 180 to 220              |                |
|              |                                                     | 170 to 210              |                |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clauses 4.2.1.1 in 3GPP TS 25.222 [29]).

## 6.11.6.4.1.6.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

## 6.11.6.4.1.6.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

## 6.11.6.4.1.6.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCl code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.44                        |

## 6.11.6.4.1.6.2 Downlink

## 6.11.6.4.1.6.2.1 Transport channel parameters

## 6.11.6.4.1.6.2.1.1 Transport channel parameters for Conversational / speech / DL:7.95 kbps / CS RAB

| Higher layer                                                                                                                                                                           | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|----------------|
| RLC                                                                                                                                                                                    | Logical channel type                                | DTCH                    |                |
|                                                                                                                                                                                        | RLC mode                                            | TM                      | TM             |
|                                                                                                                                                                                        | Payload sizes, bit                                  | 39, 75 (alt. 0, 39, 75) | 84             |
|                                                                                                                                                                                        | Max data rate, bps                                  | 7 950                   |                |
|                                                                                                                                                                                        | TrD PDU header, bit                                 | 0                       |                |
| MAC                                                                                                                                                                                    | MAC header, bit                                     | 0                       |                |
|                                                                                                                                                                                        | MAC multiplexing                                    | N/A                     |                |
| Layer 1                                                                                                                                                                                | TrCH type                                           | DCH                     | DCH            |
|                                                                                                                                                                                        | TB sizes, bit                                       | 39, 75 (alt. 0, 39, 75) | 84             |
|                                                                                                                                                                                        | TFS                                                 | 0x75 (alt. 1x0) (note)  |                |
|                                                                                                                                                                                        |                                                     | TF0, bits               | 0x84           |
|                                                                                                                                                                                        |                                                     | TF1, bits               | 1x84           |
|                                                                                                                                                                                        |                                                     | TF2, bits               | 1x75           |
|                                                                                                                                                                                        | TTI, ms                                             | 20                      | 20             |
|                                                                                                                                                                                        | Coding type                                         | CC 1/3                  | CC 1/3         |
|                                                                                                                                                                                        | CRC, bit                                            | 12                      | N/A            |
|                                                                                                                                                                                        | Max number of bits/TTI after channel coding         | 285                     | 276            |
|                                                                                                                                                                                        | Max number of bits/radio frame before rate matching | 143                     | 138            |
|                                                                                                                                                                                        | RM attribute                                        | 180 to 220              | 170 to 210     |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                         |                |

## 6.11.6.4.1.6.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.6.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

## 6.11.6.4.1.6.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                  |
|               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCl code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.48                        |

## 6.11.6.4.1.7 Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.7.1 Uplink

## 6.11.6.4.1.7.1.1 Transport channel parameters

## 6.11.6.4.1.7.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 kbps / CS RAB

| Higher layer | RAB/Signalling RB    | RAB subflow #1          | RAB subflow #2 |
|--------------|----------------------|-------------------------|----------------|
| RLC          | Logical channel type | DTCH                    |                |
|              | RLC mode             | TM                      | TM             |
|              | Payload sizes, bit   | 39, 61 (alt. 0, 39, 61) | 87             |
|              | Max data rate, bps   | 7 400                   |                |
|              | TrD PDU header, bit  | 0                       |                |

|         |                                                     |                         |                        |
|---------|-----------------------------------------------------|-------------------------|------------------------|
| MAC     | MAC header, bit                                     | 0                       |                        |
|         | MAC multiplexing                                    | N/A                     |                        |
| Layer 1 | TrCH type                                           | DCH                     | DCH                    |
|         | TB sizes, bit                                       | 39, 61 (alt. 0, 39, 61) | 87                     |
|         | TFS                                                 | TF0, bits               | 0x61 (alt. 1x0) (note) |
|         |                                                     | TF1, bits               | 1x39                   |
|         |                                                     | TF2, bits               | 1x61                   |
|         | TTI, ms                                             | 20                      | 20                     |
|         | Coding type                                         | CC 1/3                  | CC 1/3                 |
|         | CRC, bit                                            | 12                      | N/A                    |
|         | Max number of bits/TTI after channel coding         | 243                     | 285                    |
|         | Max number of bits/radio frame before rate matching | 122                     | 143                    |
|         | RM attribute                                        | 180 to 220              | 170 to 210             |

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

#### 6.11.6.4.1.7.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.7.1.1.3 TFCS

|           |                                                                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                |
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

#### 6.11.6.4.1.7.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.48                        |

#### 6.11.6.4.1.7.2 Downlink

#### 6.11.6.4.1.7.2.1 Transport channel parameters

#### 6.11.6.4.1.7.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 kbps / CS RAB

| Higher layer | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2        |
|--------------|-----------------------------------------------------|-------------------------|-----------------------|
| RLC          | Logical channel type                                | DTCH                    |                       |
|              | RLC mode                                            | TM                      | TM                    |
|              | Payload sizes, bit                                  | 39, 61 (alt. 0, 39, 61) | 87                    |
|              | Max data rate, bps                                  | 7 400                   |                       |
|              | TrD PDU header, bit                                 | 0                       |                       |
| MAC          | MAC header, bit                                     | 0                       |                       |
|              | MAC multiplexing                                    | N/A                     |                       |
| Layer 1      | TrCH type                                           | DCH                     | DCH                   |
|              | TB sizes, bit                                       | 39, 61 (alt. 0, 39, 61) | 87                    |
|              | TFS                                                 | TF0, bits               | 0x61(alt. 1x0) (note) |
|              |                                                     | TF1, bits               | 1x39                  |
|              |                                                     | TF2, bits               | 1x61                  |
|              | TTI, ms                                             | 20                      | 20                    |
|              | Coding type                                         | CC 1/3                  | CC 1/3                |
|              | CRC, bit                                            | 12                      | N/A                   |
|              | Max number of bits/TTI after channel coding         | 243                     | 285                   |
|              | Max number of bits/radio frame before rate matching | 122                     | 143                   |
|              | RM attribute                                        | 180 to 220              | 170 to 210            |

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB #1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

#### 6.11.6.4.1.7.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.7.2.1.3 TFCS

|                                                                                                                    |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                          | 6                                                                                                                                                |
| TFCS                                                                                                               | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; optional otherwise. |                                                                                                                                                  |

#### 6.11.6.4.1.7.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                  |
|               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.48                        |

#### 6.11.6.4.1.7a Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.7a.1 Uplink

##### 6.11.6.4.1.7a.1.1 Transport channel parameters

##### 6.11.6.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB                                   |           | RAB subflow #1                                     | RAB subflow #2 |
|--------------|-----------------------------------------------------|-----------|----------------------------------------------------|----------------|
| RLC          | Logical channel type                                |           | DTCH                                               |                |
|              | RLC mode                                            |           | TM                                                 | TM             |
|              | Payload sizes, bit                                  |           | 39, 42, 55, 58, 61<br>(alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 |
|              | Max data rate, bps                                  |           | 7 400                                              |                |
|              | TrD PDU header, bit                                 |           | 0                                                  |                |
| MAC          | MAC header, bit                                     |           | 0                                                  |                |
|              | MAC multiplexing                                    |           | N/A                                                |                |
| Layer 1      | TrCH type                                           |           | DCH                                                | DCH            |
|              | TB sizes, bit                                       |           | 39, 42, 55, 58, 61<br>(alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 |
|              | TFS                                                 | TF0, bits | 0x61 (alt. 1x0)<br>(note)                          | 0x87           |
|              |                                                     | TF1, bits | 1x39                                               | 1x53           |
|              |                                                     | TF2, bits | 1x42                                               | 1x63           |
|              |                                                     | TF3, bits | 1x55                                               | 1x76           |
|              |                                                     | TF4, bits | 1x58                                               | 1x87           |
|              |                                                     | TF5, bits | 1x61                                               | N/A            |
|              | TTI, ms                                             |           | 20                                                 | 20             |
|              | Coding type                                         |           | CC 1/3                                             | CC 1/3         |
|              | CRC, bit                                            |           | 12                                                 | N/A            |
|              | Max number of bits/TTI after channel coding         |           | 243                                                | 285            |
|              | Max number of bits/radio frame before rate matching |           | 122                                                | 143            |
|              | RM attribute                                        |           | 180 to 220                                         | 170 to 210     |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

##### 6.11.6.4.1.7a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH



See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.7a.1.1.3 TFCS

|           |                                                                                                                                                                                                                                                        |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                     |
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, TF4, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, TF4, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                      |

#### 6.11.6.4.1.7a.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.48                        |

#### 6.11.6.4.1.7a.2 Downlink

#### 6.11.6.4.1.7a.2.1 Transport channel parameters

##### 6.11.6.4.1.7a.2.1.1 Transport channel parameters for Conversational / speech / DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

| Higher layer | RAB/Signalling RB                                   |           | RAB subflow #1                                     | RAB subflow #2 |
|--------------|-----------------------------------------------------|-----------|----------------------------------------------------|----------------|
| RLC          | Logical channel type                                |           | DTCH                                               |                |
|              | RLC mode                                            |           | TM                                                 | TM             |
|              | Payload sizes, bit                                  |           | 39, 42, 55, 58, 61<br>(alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 |
|              | Max data rate, bps                                  |           | 7 400                                              |                |
|              | TrD PDU header, bit                                 |           | 0                                                  |                |
| MAC          | MAC header, bit                                     |           | 0                                                  |                |
|              | MAC multiplexing                                    |           | N/A                                                |                |
| Layer 1      | TrCH type                                           |           | DCH                                                | DCH            |
|              | TB sizes, bit                                       |           | 39, 42, 55, 58, 61<br>(alt. 0, 39, 42, 55, 58, 61) | 53, 63, 76, 87 |
|              | TFS                                                 | TF0, bits | 0x61 (alt. 1x0)<br>(note)                          | 0x87           |
|              |                                                     | TF1, bits | 1x39                                               | 1x53           |
|              |                                                     | TF2, bits | 1x42                                               | 1x63           |
|              |                                                     | TF3, bits | 1x55                                               | 1x76           |
|              |                                                     | TF4, bits | 1x58                                               | 1x87           |
|              |                                                     | TF5, bits | 1x61                                               | N/A            |
|              | TTI, ms                                             |           | 20                                                 | 20             |
|              | Coding type                                         |           | CC 1/3                                             | CC 1/3         |
|              | CRC, bit                                            |           | 12                                                 | N/A            |
|              | Max number of bits/TTI after channel coding         |           | 243                                                | 285            |
|              | Max number of bits/radio frame before rate matching |           | 122                                                | 143            |
|              | RM attribute                                        |           | 180 to 220                                         | 170 to 210     |

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

#### 6.11.6.4.1.7a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.7a.2.1.3 TFCS

|           |                                                                                                                                                |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5, TF4, TF0), |

|       |                                                                                                                   |
|-------|-------------------------------------------------------------------------------------------------------------------|
|       | (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5, TF4, TF1)              |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |

#### 6.11.6.4.1.7a.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                  |
|               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.48                        |

#### 6.11.6.4.1.8 Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.8.1 Uplink

##### 6.11.6.4.1.8.1.1 Transport channel parameters

##### 6.11.6.4.1.8.1.1.1 Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                | DTCH                    |                |
|                                                                                                                                                                                                                           | RLC mode                                            | TM                      | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                  | 39, 58 (alt. 0, 39, 58) | 76             |
|                                                                                                                                                                                                                           | Max data rate, bps                                  | 6 700                   |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                 | 0                       |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                     | 0                       |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                    | N/A                     |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                           | DCH                     | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                       | 39, 58 (alt. 0, 39, 58) | 76             |
|                                                                                                                                                                                                                           | TFS                                                 | 0x58 (alt. 1x0) (note)  |                |
|                                                                                                                                                                                                                           |                                                     | TF0, bits               | 0x76           |
|                                                                                                                                                                                                                           |                                                     | TF1, bits               | 1x76           |
|                                                                                                                                                                                                                           |                                                     | TF2, bits               | N/A            |
|                                                                                                                                                                                                                           | TTI, ms                                             | 20                      | 20             |
|                                                                                                                                                                                                                           | Coding type                                         | CC 1/3                  | CC 1/3         |
|                                                                                                                                                                                                                           | CRC, bit                                            | 12                      | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         | 234                     | 252            |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching | 117                     | 126            |
|                                                                                                                                                                                                                           | RM attribute                                        | 180 to 220              | 170 to 210     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                         |                |

##### 6.11.6.4.1.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

##### 6.11.6.4.1.8.1.1.3 TFCS

|           |                                                                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                |
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                               |

#### 6.11.6.4.1.8.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.52                        |

## 6.11.6.4.1.8.2 Downlink

## 6.11.6.4.1.8.2.1 Transport channel parameters

## 6.11.6.4.1.8.2.1.1 Transport channel parameters for Conversational / speech / DL:6.7 kbps / CS RAB

| Higher layer                                                                                                                                                                            | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|------------------------|
| RLC                                                                                                                                                                                     | Logical channel type                                | DTCH                    |                        |
|                                                                                                                                                                                         | RLC mode                                            | TM                      | TM                     |
|                                                                                                                                                                                         | Payload sizes, bit                                  | 39, 58 (alt. 0, 39, 58) | 76                     |
|                                                                                                                                                                                         | Max data rate, bps                                  | 6 700                   |                        |
|                                                                                                                                                                                         | TrD PDU header, bit                                 | 0                       |                        |
| MAC                                                                                                                                                                                     | MAC header, bit                                     | 0                       |                        |
|                                                                                                                                                                                         | MAC multiplexing                                    | N/A                     |                        |
| Layer 1                                                                                                                                                                                 | TrCH type                                           | DCH                     | DCH                    |
|                                                                                                                                                                                         | TB sizes, bit                                       | 39, 58 (alt. 0, 39, 58) | 76                     |
|                                                                                                                                                                                         | TFS                                                 | TF0, bits               | 0x58 (alt. 1x0) (note) |
|                                                                                                                                                                                         |                                                     | TF1, bits               | 1x39                   |
|                                                                                                                                                                                         |                                                     | TF2, bits               | 1x58                   |
|                                                                                                                                                                                         | TTI, ms                                             | 20                      | 20                     |
|                                                                                                                                                                                         | Coding type                                         | CC 1/3                  | CC 1/3                 |
|                                                                                                                                                                                         | CRC, bit                                            | 12                      | N/A                    |
|                                                                                                                                                                                         | Max number of bits/TTI after channel coding         | 234                     | 252                    |
|                                                                                                                                                                                         | Max number of bits/radio frame before rate matching | 117                     | 126                    |
|                                                                                                                                                                                         | RM attribute                                        | 180 to 220              | 170 to 210             |
| NOTE : CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                         |                        |

## 6.11.6.4.1.8.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.8.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

## 6.11.6.4.1.8.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                  |
|               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCl code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.52                        |

## 6.11.6.4.1.9 Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.9.1 Uplink

## 6.11.6.4.1.9.1.1 Transport channel parameters

## 6.11.6.4.1.9.1.1.1 Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB

| Higher layer | RAB/Signalling RB    | RAB subflow #1 | RAB subflow #2 |
|--------------|----------------------|----------------|----------------|
| RLC          | Logical channel type | DTCH           |                |
|              | RLC mode             | TM             | TM             |

|                                                                                                                                                                                                                           |                                                     |                         |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|------------------------|
|                                                                                                                                                                                                                           | Payload sizes, bit                                  | 39, 55 (alt. 0, 39, 55) | 63                     |
|                                                                                                                                                                                                                           | Max data rate, bps                                  | 5 900                   |                        |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                 | 0                       |                        |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                     | 0                       |                        |
|                                                                                                                                                                                                                           | MAC multiplexing                                    | N/A                     |                        |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                           | DCH                     | DCH                    |
|                                                                                                                                                                                                                           | TB sizes, bit                                       | 39, 55 (alt. 0, 39, 55) | 63                     |
|                                                                                                                                                                                                                           | TFS                                                 | TF0, bits               | 0x55 (alt. 1x0) (note) |
|                                                                                                                                                                                                                           |                                                     | TF1, bits               | 1x39                   |
|                                                                                                                                                                                                                           |                                                     | TF2, bits               | 1x63                   |
|                                                                                                                                                                                                                           | TTI, ms                                             | 20                      | 20                     |
|                                                                                                                                                                                                                           | Coding type                                         | CC 1/3                  | CC 1/3                 |
|                                                                                                                                                                                                                           | CRC, bit                                            | 12                      | N/A                    |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         | 225                     | 213                    |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching | 113                     | 107                    |
|                                                                                                                                                                                                                           | RM attribute                                        | 180 to 220              | 170 to 210             |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                         |                        |

#### 6.11.6.4.1.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.9.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

#### 6.11.6.4.1.9.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCl code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.56                        |

#### 6.11.6.4.1.9.2 Downlink

#### 6.11.6.4.1.9.2.1 Transport channel parameters

#### 6.11.6.4.1.9.2.1.1 Transport channel parameters for Conversational / speech / DL:5.9 kbps / CS RAB

| Higher layer | RAB/Signalling RB    | RAB subflow #1          | RAB subflow #2         |
|--------------|----------------------|-------------------------|------------------------|
| RLC          | Logical channel type | DTCH                    |                        |
|              | RLC mode             | TM                      | TM                     |
|              | Payload sizes, bit   | 39, 55 (alt. 0, 39, 55) | 63                     |
|              | Max data rate, bps   | 5 900                   |                        |
|              | TrD PDU header, bit  | 0                       |                        |
| MAC          | MAC header, bit      | 0                       |                        |
|              | MAC multiplexing     | N/A                     |                        |
| Layer 1      | TrCH type            | DCH                     | DCH                    |
|              | TB sizes, bit        | 39, 55 (alt. 0, 39, 55) | 63                     |
|              | TFS                  | TF0, bits               | 0x55 (alt. 1x0) (note) |
|              |                      | TF1, bits               | 1x39                   |
|              |                      | TF2, bits               | 1x63                   |
|              | TTI, ms              | 20                      | 20                     |
|              | Coding type          | CC 1/3                  | CC 1/3                 |
|              | CRC, bit             | 12                      | N/A                    |

|                                                                                                                                                                                        |                                                     |            |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|------------|
|                                                                                                                                                                                        | Max number of bits/TTI after channel coding         | 225        | 213        |
|                                                                                                                                                                                        | Max number of bits/radio frame before rate matching | 113        | 107        |
|                                                                                                                                                                                        | RM attribute                                        | 180 to 220 | 170 to 210 |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |            |            |

#### 6.11.6.4.1.9.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.9.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

#### 6.11.6.4.1.9.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                  |
|               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCl code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.56                        |

#### 6.11.6.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

##### 6.11.6.4.1.10.1 Uplink

##### 6.11.6.4.1.10.1.1 Transport channel parameters

##### 6.11.6.4.1.10.1.1.1 Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB

| Higher layer                                                                                                                                                                                                              | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|----------------|
| RLC                                                                                                                                                                                                                       | Logical channel type                                | DTCH                    |                |
|                                                                                                                                                                                                                           | RLC mode                                            | TM                      | TM             |
|                                                                                                                                                                                                                           | Payload sizes, bit                                  | 39, 49 (alt. 0, 39, 49) | 54             |
|                                                                                                                                                                                                                           | Max data rate, bps                                  | 5 150                   |                |
|                                                                                                                                                                                                                           | TrD PDU header, bit                                 | 0                       |                |
| MAC                                                                                                                                                                                                                       | MAC header, bit                                     | 0                       |                |
|                                                                                                                                                                                                                           | MAC multiplexing                                    | N/A                     |                |
| Layer 1                                                                                                                                                                                                                   | TrCH type                                           | DCH                     | DCH            |
|                                                                                                                                                                                                                           | TB sizes, bit                                       | 39, 49 (alt. 0, 39, 49) | 54             |
|                                                                                                                                                                                                                           | TFS                                                 | 0x49 (alt. 1x0) (note)  |                |
|                                                                                                                                                                                                                           |                                                     | TF0, bits               | 0x54           |
|                                                                                                                                                                                                                           |                                                     | TF1, bits               | 1x54           |
|                                                                                                                                                                                                                           |                                                     | TF2, bits               | N/A            |
|                                                                                                                                                                                                                           | TTI, ms                                             | 20                      | 20             |
|                                                                                                                                                                                                                           | Coding type                                         | CC 1/3                  | CC 1/3         |
|                                                                                                                                                                                                                           | CRC, bit                                            | 12                      | N/A            |
|                                                                                                                                                                                                                           | Max number of bits/TTI after channel coding         | 207                     | 186            |
|                                                                                                                                                                                                                           | Max number of bits/radio frame before rate matching | 104                     | 93             |
|                                                                                                                                                                                                                           | RM attribute                                        | 180 to 220              | 170 to 210     |
| NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                         |                |

##### 6.11.6.4.1.10.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.11.6.4.1.1.1.1.1.

## 6.11.6.4.1.10.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

## 6.11.6.4.1.10.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.72                        |

## 6.11.6.4.1.10.2 Downlink

## 6.11.6.4.1.10.2.1 Transport channel parameters

## 6.11.6.4.1.10.2.1.1 Transport channel parameters for Conversational / speech / DL:5.15 kbps / CS RAB

| Higher layer                                                                                                                                                                           | RAB/Signalling RB                                   | RAB subflow #1          | RAB subflow #2         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|------------------------|
| RLC                                                                                                                                                                                    | Logical channel type                                | DTCH                    |                        |
|                                                                                                                                                                                        | RLC mode                                            | TM                      | TM                     |
|                                                                                                                                                                                        | Payload sizes, bit                                  | 39, 49 (alt. 0, 39, 49) | 54                     |
|                                                                                                                                                                                        | Max data rate, bps                                  | 5 150                   |                        |
|                                                                                                                                                                                        | TrD PDU header, bit                                 | 0                       |                        |
| MAC                                                                                                                                                                                    | MAC header, bit                                     | 0                       |                        |
|                                                                                                                                                                                        | MAC multiplexing                                    | N/A                     |                        |
| Layer 1                                                                                                                                                                                | TrCH type                                           | DCH                     | DCH                    |
|                                                                                                                                                                                        | TB sizes, bit                                       | 39, 49 (alt. 0, 39, 49) | 54                     |
|                                                                                                                                                                                        | TFS                                                 | TF0, bits               | 0x49 (alt. 1x0) (note) |
|                                                                                                                                                                                        |                                                     | TF1, bits               | 1x39                   |
|                                                                                                                                                                                        |                                                     | TF2, bits               | 1x54                   |
|                                                                                                                                                                                        |                                                     |                         | 1x49                   |
|                                                                                                                                                                                        |                                                     |                         | N/A                    |
|                                                                                                                                                                                        | TTI, ms                                             | 20                      | 20                     |
|                                                                                                                                                                                        | Coding type                                         | CC 1/3                  | CC 1/3                 |
|                                                                                                                                                                                        | CRC, bit                                            | 12                      | N/A                    |
|                                                                                                                                                                                        | Max number of bits/TTI after channel coding         | 207                     | 186                    |
|                                                                                                                                                                                        | Max number of bits/radio frame before rate matching | 104                     | 93                     |
|                                                                                                                                                                                        | RM attribute                                        | 180 to 220              | 170 to 210             |
| NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                         |                        |

## 6.11.6.4.1.10.2.1.2 Transport channel parameters for DL: 1.7 kbps SRBs for DCCH

See clause 6.11.6.4.1.1.2.1.1.

## 6.11.6.4.1.10.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

## 6.11.6.4.1.10.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                  |
|               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |

|  |                  |         |
|--|------------------|---------|
|  | TFCl code word   | 16 bits |
|  | Puncturing limit | 0.72    |

6.11.6.4.1.11 Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.6.4.1.11.1 Uplink

6.11.6.4.1.11.1.1 Transport channel parameters

6.11.6.4.1.11.1.1.1 Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB

| Higher layer | RAB/Signalling RB                                                                                                                                                                                                   | RAB subflow #1          | RAB subflow #2         |      |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|------|
| RLC          | Logical channel type                                                                                                                                                                                                | DTCH                    |                        |      |
|              | RLC mode                                                                                                                                                                                                            | TM                      | TM                     |      |
|              | Payload sizes, bit                                                                                                                                                                                                  | 39, 42 (alt. 0, 39, 42) | 53                     |      |
|              | Max data rate, bps                                                                                                                                                                                                  | 4 750                   |                        |      |
|              | TrD PDU header, bit                                                                                                                                                                                                 | 0                       |                        |      |
| MAC          | MAC header, bit                                                                                                                                                                                                     | 0                       |                        |      |
|              | MAC multiplexing                                                                                                                                                                                                    | N/A                     |                        |      |
| Layer 1      | TrCH type                                                                                                                                                                                                           | DCH                     | DCH                    |      |
|              | TB sizes, bit                                                                                                                                                                                                       | 39, 42 (alt. 0, 39, 42) | 53                     |      |
|              | TFS                                                                                                                                                                                                                 | TF0, bits               | 0x42 (alt. 1x0) (note) | 0x53 |
|              |                                                                                                                                                                                                                     | TF1, bits               | 1x39                   | 1x53 |
|              |                                                                                                                                                                                                                     | TF2, bits               | 1x42                   | N/A  |
|              | TTI, ms                                                                                                                                                                                                             | 20                      | 20                     |      |
|              | Coding type                                                                                                                                                                                                         | CC 1/3                  | CC 1/3                 |      |
|              | CRC, bit                                                                                                                                                                                                            | 12                      | N/A                    |      |
|              | Max number of bits/TTI after channel coding                                                                                                                                                                         | 186                     | 183                    |      |
|              | Max number of bits/radio frame before rate matching                                                                                                                                                                 | 93                      | 92                     |      |
|              | RM attribute                                                                                                                                                                                                        | 180 to 220              | 170 to 210             |      |
| NOTE:        | In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                         |                        |      |

6.11.6.4.1.11.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.11.6.4.1.11.1.1.

6.11.6.4.1.11.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                  |

6.11.6.4.1.11.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCl code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.76                        |

6.11.6.4.1.11.2 Downlink

6.11.6.4.1.11.2.1 Transport channel parameters

6.11.6.4.1.11.2.1.1 Transport channel parameters for Conversational / speech / DL:4.75 kbps / CS RAB

| Higher layer | RAB/Signalling RB | RAB subflow #1 | RAB subflow #2 |
|--------------|-------------------|----------------|----------------|
|--------------|-------------------|----------------|----------------|

|         |                                                     |           |                         |            |
|---------|-----------------------------------------------------|-----------|-------------------------|------------|
| RLC     | Logical channel type                                |           | DTCH                    |            |
|         | RLC mode                                            |           | TM                      | TM         |
|         | Payload sizes, bit                                  |           | 39, 42 (alt. 0, 39, 42) | 53         |
|         | Max data rate, bps                                  |           | 4 750                   |            |
|         | TrD PDU header, bit                                 |           | 0                       |            |
| MAC     | MAC header, bit                                     |           | 0                       |            |
|         | MAC multiplexing                                    |           | N/A                     |            |
| Layer 1 | TrCH type                                           |           | DCH                     | DCH        |
|         | TB sizes, bit                                       |           | 39, 42 (alt. 0, 39, 42) | 53         |
|         | TFS                                                 | TF0, bits | 0x42 (alt. 1x0 )(note)  |            |
|         |                                                     | TF1, bits | 1x39                    | 1x53       |
|         |                                                     | TF2, bits | 1x42                    | N/A        |
|         | TTI, ms                                             |           | 20                      | 20         |
|         | Coding type                                         |           | CC 1/3                  | CC 1/3     |
|         | CRC, bit                                            |           | 12                      | N/A        |
|         | Max number of bits/TTI after channel coding         |           | 186                     | 183        |
|         | Max number of bits/radio frame before rate matching |           | 93                      | 92         |
|         | RM attribute                                        |           | 180 to 220              | 170 to 210 |

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 3GPP TS 25.222 [29]).

#### 6.11.6.4.1.11.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.11.6.4.1.1.2.1.1.

#### 6.11.6.4.1.11.2.1.3 TFCS

|           |                                                                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                |
| TFCS      | (RAB subflow#1, RAB subflow#2, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1) |

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

#### 6.11.6.4.1.11.2.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                  |
|               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|               | Max. Number of data bits/radio frame | 228 bits                    |
|               | TFCl code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.76                        |

#### 6.11.6.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.11.6.4.1.12.1 Uplink

#### 6.11.6.4.1.12.1.1 Transport channel parameters

#### 6.11.6.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB

|              |                      |           |        |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB    |           | RAB    |
| RLC          | Logical channel type |           | DTCH   |
|              | RLC mode             |           | TM     |
|              | Payload sizes, bit   |           | 576    |
|              | Max data rate, bps   |           | 28 800 |
|              | TrD PDU header, bit  |           | 0      |
| MAC          | MAC header, bit      |           | 0      |
|              | MAC multiplexing     |           | N/A    |
| Layer 1      | TrCH type            |           | DCH    |
|              | TB sizes, bit        |           | 576    |
|              | TFS                  | TF0, bits | 0x576  |
|              |                      | TF1, bits | 1x576  |
|              | TTI, ms              |           | 20     |



|  |                                                     |            |
|--|-----------------------------------------------------|------------|
|  | Coding type                                         | TC         |
|  | CRC, bit                                            | 16         |
|  | Max number of bits/TTI after channel coding         | 3 564      |
|  | Max number of bits/radio frame before rate matching | 891        |
|  | RM attribute                                        | 160 to 200 |

#### 6.11.6.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.12.1.1.3 TFCS

|                                                                                                                          |                                                                          |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                        |
| TFCS                                                                                                                     | (28.8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                          |

#### 6.11.6.4.1.12.1.2 Physical channel parameters

|                                                                                             |                                      |                            |
|---------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|
| DPCH Uplink                                                                                 | Midamble                             | 1024 chips                 |
|                                                                                             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|                                                                                             | Max. Number of data bits/radio frame | 904 bits                   |
|                                                                                             | TFCl code word                       | 16 bits                    |
|                                                                                             | TPC                                  | 2 bits                     |
|                                                                                             | Puncturing Limit                     | 0.76                       |
| NOTE: In case the first TFC in a TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                            |

#### 6.11.6.4.1.12.2 Downlink

#### 6.11.6.4.1.12.2.1 Transport channel parameters

##### 6.11.6.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | TM         |
|              | Payload sizes, bit                                  |           | 576        |
|              | Max data rate, bps                                  |           | 28 800     |
|              | TrD PDU header, bit                                 |           | 0          |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 576        |
|              | TFS                                                 | TF0, bits | 0x576      |
|              |                                                     | TF1, bits | 1x576      |
|              | TTI, ms                                             |           | 20         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 3 564      |
|              | Max number of bits/radio frame before rate matching |           | 891        |
|              | RM attribute                                        |           | 160 to 200 |

#### 6.11.6.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.12.2.1.3 TFCS

|                                                                                                                          |                                                                          |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                        |
| TFCS                                                                                                                     | (28.8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                          |

## 6.11.6.4.1.12.2.2 Physical channel parameters

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 1024 chips                   |
|                                                                                               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 472 bits                     |
|                                                                                               | TFCl code word                       | 16 bits                      |
|                                                                                               | Puncturing limit                     | 0.40                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                              |

## 6.11.6.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.13.1 Uplink

## 6.11.6.4.1.13.1.1 Transport channel parameters

## 6.11.6.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

|              |                                                     |           |                   |
|--------------|-----------------------------------------------------|-----------|-------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB               |
| RLC          | Logical channel type                                |           | DTCH              |
|              | RLC mode                                            |           | TM                |
|              | Payload sizes, bit                                  |           | 640               |
|              | Max data rate, bps                                  |           | 64 000            |
|              | TrD PDU header, bit                                 |           | 0                 |
| MAC          | MAC header, bit                                     |           | 0                 |
|              | MAC multiplexing                                    |           | N/A               |
| Layer 1      | TrCH type                                           |           | DCH               |
|              | TB sizes, bit                                       |           | 640               |
|              | TFS                                                 | TF0, bits | 0x640             |
|              |                                                     | TF1, bits | 2x640(alt. 4x640) |
|              | TTI, ms                                             |           | 20(alt. 40)       |
|              | Coding type                                         |           | TC                |
|              | CRC, bit                                            |           | 16                |
|              | Max number of bits/TTI after channel coding         |           | 3 948(alt. 7884)  |
|              | Max number of bits/radio frame before rate matching |           | 1 974(alt. 1971)  |
|              | RM attribute                                        |           | 150 to 195        |

## 6.11.6.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

## 6.11.6.4.1.13.1.1.3 TFCS

|                                                                                                                          |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                  |
| TFCS                                                                                                                     | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                    |

## 6.11.6.4.1.13.1.2 Physical channel parameters

|                                                                                               |                                      |                                                          |
|-----------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 1024 chips                                               |
|                                                                                               | Codes and time slots                 | SF32 x 1 code x 1 time slot + SF8 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 1148 bits                                                |
|                                                                                               | TFCl code word                       | 16 bits                                                  |
|                                                                                               | TPC                                  | 2 bits                                                   |
|                                                                                               | Puncturing Limit                     | 0.48                                                     |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                                                          |

## 6.11.6.4.1.13.2 Downlink

## 6.11.6.4.1.13.2.1 Transport channel parameters

## 6.11.6.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

|              |                                                     |           |                   |
|--------------|-----------------------------------------------------|-----------|-------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB               |
| RLC          | Logical channel type                                |           | DTCH              |
|              | RLC mode                                            |           | TM                |
|              | Payload sizes, bit                                  |           | 640               |
|              | Max data rate, bps                                  |           | 64 000            |
|              | TrD PDU header, bit                                 |           | 0                 |
| MAC          | MAC header, bit                                     |           | 0                 |
|              | MAC multiplexing                                    |           | N/A               |
|              |                                                     |           |                   |
| Layer 1      | TrCH type                                           |           | DCH               |
|              | TB sizes, bit                                       |           | 640               |
|              | TFS                                                 | TF0, bits | 0x640             |
|              |                                                     | TF1, bits | 2x640(alt. 4x640) |
|              | TTI, ms                                             |           | 20(alt. 40)       |
|              | Coding type                                         |           | TC                |
|              | CRC, bit                                            |           | 16                |
|              | Max number of bits/TTI after channel coding         |           | 3 948(alt. 7884)  |
|              | Max number of bits/radio frame before rate matching |           | 1 974(alt. 1971)  |
|              | RM attribute                                        |           | 150 to 195        |

## 6.11.6.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.13.2.1.3 TFCS

|                                                                                                                          |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                  |
| TFCS                                                                                                                     | (64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                    |

## 6.11.6.4.1.13.2.2 Physical channel parameters

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 1024 chips                   |
|                                                                                               | Codes and time slots                 | SF32 x 5 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 1 204 bits                   |
|                                                                                               | TFCl code word                       | 16 bits                      |
|                                                                                               | Puncturing limit                     | 0.52                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                              |

## 6.11.6.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.14.1 Uplink

## 6.11.6.4.1.14.1.1 Transport channel parameters

## 6.11.6.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB

|              |                      |           |        |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB    |           | RAB    |
| RLC          | Logical channel type |           | DTCH   |
|              | RLC mode             |           | TM     |
|              | Payload sizes, bit   |           | 640    |
|              | Max data rate, bps   |           | 32 000 |
|              | TrD PDU header, bit  |           | 0      |
| MAC          | MAC header, bit      |           | 0      |
|              | MAC multiplexing     |           | N/A    |
|              |                      |           |        |
| Layer 1      | TrCH type            |           | DCH    |
|              | TB sizes, bit        |           | 640    |
|              | TFS                  | TF0, bits | 0x640  |

|  |                                                     |                   |
|--|-----------------------------------------------------|-------------------|
|  | TF1, bits                                           | 1x640(alt. 2x640) |
|  | TTI, ms                                             | 20(alt. 40)       |
|  | Coding type                                         | TC                |
|  | CRC, bit                                            | 16                |
|  | Max number of bits/TTI after channel coding         | 1 980(alt. 3948)  |
|  | Max number of bits/radio frame before rate matching | 990(alt. 987)     |
|  | RM attribute                                        | 165 to 210        |

#### 6.11.6.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.14.1.1.3 TFCS

|                                                                                                                          |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                  |
| TFCS                                                                                                                     | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                    |

#### 6.11.6.4.1.14.1.2 Physical channel parameters

|                                                                                               |                                      |                            |
|-----------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 1024 chips                 |
|                                                                                               | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 904 bits                   |
|                                                                                               | TFCl code word                       | 16 bits                    |
|                                                                                               | TPC                                  | 2 bits                     |
|                                                                                               | Puncturing Limit                     | 0.68                       |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                            |

#### 6.11.6.4.1.14.2 Downlink

#### 6.11.6.4.1.14.2.1 Transport channel parameters

#### 6.11.6.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB

|              |                                                     |           |                   |
|--------------|-----------------------------------------------------|-----------|-------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB               |
| RLC          | Logical channel type                                |           | DTCH              |
|              | RLC mode                                            |           | TM                |
|              | Payload sizes, bit                                  |           | 640               |
|              | Max data rate, bps                                  |           | 32 000            |
|              | TrD PDU header, bit                                 |           | 0                 |
| MAC          | MAC header, bit                                     |           | 0                 |
|              | MAC multiplexing                                    |           | N/A               |
| Layer 1      | TrCH type                                           |           | DCH               |
|              | TB sizes, bit                                       |           | 640               |
|              | TFS                                                 | TF0, bits | 0x640             |
|              |                                                     | TF1, bits | 1x640(alt. 2x640) |
|              | TTI, ms                                             |           | 20(alt. 40)       |
|              | Coding type                                         |           | TC                |
|              | CRC, bit                                            |           | 16                |
|              | Max number of bits/TTI after channel coding         |           | 1 980(alt. 3948)  |
|              | Max number of bits/radio frame before rate matching |           | 990(alt. 987)     |
|              | RM attribute                                        |           | 165 to 210        |

#### 6.11.6.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.14.2.1.3 TFCS

|                                                                                                                          |                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                  |
| TFCS                                                                                                                     | (32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                    |

## 6.11.6.4.1.14.2.2 Physical channel parameters

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 1024 chips                   |
|                                                                                               | Codes and time slots                 | SF32 x 3 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 716 bits                     |
|                                                                                               | TFCl code word                       | 16 bits                      |
|                                                                                               | Puncturing limit                     | 0.52                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                              |

6.11.6.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.15.1 Uplink

6.11.6.4.1.15.1.1 Transport channel parameters

6.11.6.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | TM         |
|              | Payload sizes, bit                                  |           | 576        |
|              | Max data rate, bps                                  |           | 14 400     |
|              | TrD PDU header, bit                                 |           | 0          |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 576        |
|              | TFS                                                 | TF0, bits | 0x576      |
|              |                                                     | TF1, bits | 1x576      |
|              | TTI, ms                                             |           | 40         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 1 788      |
|              | Max number of bits/radio frame before rate matching |           | 447        |
|              | RM attribute                                        |           | 145 to 185 |

6.11.6.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.15.1.1.3 TFCS

|                                                                                                                          |                                                                      |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                    |
| TFCS                                                                                                                     | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                      |

6.11.6.4.1.15.1.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 1024 chips                  |
|                                                                                               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 452bits                     |
|                                                                                               | TFCl code word                       | 16 bits                     |
|                                                                                               | TPC                                  | 2 bits                      |
|                                                                                               | Puncturing Limit                     | 0.76                        |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                             |

## 6.11.6.4.1.15.2 Downlink

## 6.11.6.4.1.15.2.1 Transport channel parameters

## 6.11.6.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | TM         |
|              | Payload sizes, bit                                  |           | 576        |
|              | Max data rate, bps                                  |           | 14 400     |
|              | TrD PDU header, bit                                 |           | 0          |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 576        |
|              | TFS                                                 | TF0, bits | 0x576      |
|              |                                                     | TF1, bits | 1x576      |
|              | TTI, ms                                             |           | 40         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 1 788      |
|              | Max number of bits/radio frame before rate matching |           | 447        |
|              | RM attribute                                        |           | 145 to 185 |

## 6.11.6.4.1.15.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.15.2.1.3 TFCS

|                                                                                                                          |                                                                      |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                    |
| TFCS                                                                                                                     | (14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                      |

## 6.11.6.4.1.15.2.2 Physical channel parameters

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 1024 chips                   |
|                                                                                               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 472 bits                     |
|                                                                                               | TFCl code word                       | 16 bits                      |
|                                                                                               | Puncturing limit                     | 0.80                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                              |

## 6.11.6.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.16.1 Uplink

## 6.11.6.4.1.16.1.1 Transport channel parameters

## 6.11.6.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB

|              |                      |           |        |
|--------------|----------------------|-----------|--------|
| Higher layer | RAB/Signalling RB    |           | RAB    |
| RLC          | Logical channel type |           | DTCH   |
|              | RLC mode             |           | TM     |
|              | Payload sizes, bit   |           | 576    |
|              | Max data rate, bps   |           | 28 800 |
|              | TrD PDU header, bit  |           | 0      |
| MAC          | MAC header, bit      |           | 0      |
|              | MAC multiplexing     |           | N/A    |
| Layer 1      | TrCH type            |           | DCH    |
|              | TB sizes, bit        |           | 576    |
|              | TFS                  | TF0, bits | 0x576  |

|  |                                                     |            |
|--|-----------------------------------------------------|------------|
|  | TF1, bits                                           | 1x576      |
|  | TTI, ms                                             | 20         |
|  | Coding type                                         | TC         |
|  | CRC, bit                                            | 16         |
|  | Max number of bits/TTI after channel coding         | 3 564      |
|  | Max number of bits/radio frame before rate matching | 891        |
|  | RM attribute                                        | 135 to 175 |

#### 6.11.6.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.16.1.1.3 TFCS

|                                                                                                                          |                                                                          |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| TFCS size                                                                                                                | 4                                                                        |
| TFCS                                                                                                                     | (28.8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                          |

#### 6.11.6.4.1.16.1.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Uplink                                                                                   | Midamble                             | 1024 chips                  |
|                                                                                               | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 452 bits                    |
|                                                                                               | TFCl code word                       | 16 bits                     |
|                                                                                               | TPC                                  | 2 bits                      |
|                                                                                               | Puncturing Limit                     | 0.44                        |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                             |

#### 6.11.6.4.1.16.2 Downlink

#### 6.11.6.4.1.16.2.1 Transport channel parameters

##### 6.11.6.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | TM         |
|              | Payload sizes, bit                                  |           | 576        |
|              | Max data rate, bps                                  |           | 28 800     |
|              | TrD PDU header, bit                                 |           | 0          |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 576        |
|              | TFS                                                 | TF0, bits | 0x576      |
|              |                                                     | TF1, bits | 1x576      |
|              | TTI, ms                                             |           | 20         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 3 564      |
|              | Max number of bits/radio frame before rate matching |           | 891        |
|              | RM attribute                                        |           | 135 to 175 |

#### 6.11.6.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.16.2.1.3 TFCS

|           |                                                                          |
|-----------|--------------------------------------------------------------------------|
| TFCS size | 4                                                                        |
| TFCS      | (28.8 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1) |

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

#### 6.11.6.4.1.16.2.2 Physical channel parameters

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 1024 chips                   |
|                                                                                               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 472 bits                     |
|                                                                                               | TFCl code word                       | 16 bits                      |
|                                                                                               | Puncturing limit                     | 0.44                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCl code word will be 8 bits. |                                      |                              |

#### 6.11.6.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.17.1 Uplink

##### 6.11.6.4.1.17.1.1 Transport channel parameters

##### 6.11.6.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

|              |                                                     |            |
|--------------|-----------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                   | RAB        |
| RLC          | Logical channel type                                | DTCH       |
|              | RLC mode                                            | TM         |
|              | Payload sizes, bit                                  | 576        |
|              | Max data rate, bps                                  | 57 600     |
|              | TrD PDU header, bit                                 | 0          |
| MAC          | MAC header, bit                                     | 0          |
|              | MAC multiplexing                                    | N/A        |
| Layer 1      | TrCH type                                           | DCH        |
|              | TB sizes, bit                                       | 576        |
|              | TFS                                                 | TF0, bits  |
|              |                                                     | TF1, bits  |
|              |                                                     | TF2, bits  |
|              |                                                     | TF3, bits  |
|              |                                                     | TF4, bits  |
|              | TTI, ms                                             | 40         |
|              | Coding type                                         | TC         |
|              | CRC, bit                                            | 16         |
|              | Max number of bits/TTI after channel coding         | 7 116      |
|              | Max number of bits/radio frame before rate matching | 1 779      |
|              | RM attribute                                        | 125 to 165 |

##### 6.11.6.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

##### 6.11.6.4.1.17.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 10                                                                                                                                                  |
| TFCS                                                                                                                     | (57.6 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                     |

#### 6.11.6.4.1.17.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                 |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCl code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.44                       |



## 6.11.6.4.1.17.2 Downlink

## 6.11.6.4.1.17.2.1 Transport channel parameters

## 6.11.6.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | TM         |
|              | Payload sizes, bit                                  |           | 576        |
|              | Max data rate, bps                                  |           | 57 600     |
|              | TrD PDU header, bit                                 |           | 0          |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 576        |
|              | TFS                                                 | TF0, bits | 0x576      |
|              |                                                     | TF1, bits | 1x576      |
|              |                                                     | TF2, bits | 2x576      |
|              |                                                     | TF3, bits | 3x576      |
|              |                                                     | TF4, bits | 4x576      |
|              | TTI, ms                                             |           | 40         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 7 116      |
|              | Max number of bits/radio frame before rate matching |           | 1 779      |
|              | RM attribute                                        |           | 125 to 165 |

## 6.11.6.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.17.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 10                                                                                                                                                  |
| TFCS                                                                                                                     | (57.6 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                     |

## 6.11.6.4.1.17.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 4 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 960 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.48                         |

## 6.11.6.4.1.18 Void

## 6.11.6.4.1.19 Void

## 6.11.6.4.1.20 Void

## 6.11.6.4.1.21 Void

## 6.11.6.4.1.22 Void

## 6.11.6.4.1.23 Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.23.1 Uplink

## 6.11.6.4.1.23.1.1 Transport channel parameters

## 6.11.6.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

|              |                                                     |           |                    |
|--------------|-----------------------------------------------------|-----------|--------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                |
| RLC          | Logical channel type                                |           | DTCH               |
|              | RLC mode                                            |           | AM                 |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)     |
|              | Max data rate, bps                                  |           | 32 000             |
|              | AMD PDU header, bit                                 |           | 16                 |
| MAC          | MAC header, bit                                     |           | 0                  |
|              | MAC multiplexing                                    |           | N/A                |
| Layer 1      | TrCH type                                           |           | DCH                |
|              | TB sizes, bit                                       |           | 336 (alt.144)      |
|              | TFS                                                 | TF0, bits | 0x336 (alt. 0x144) |
|              |                                                     | TF1, bits | 1x336 (alt. 1x144) |
|              |                                                     | TF2, bits | 2x336 (alt. 5x144) |
|              | TTI, ms                                             |           | 20                 |
|              | Coding type                                         |           | TC                 |
|              | CRC, bit                                            |           | 16                 |
|              | Max number of bits/TTI after channel coding         |           | 2 124 (alt. 2 412) |
|              | Max number of bits/radio frame before rate matching |           | 1 062 (alt. 1 206) |
|              | RM attribute                                        |           | 135 to 175         |

## 6.11.6.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

## 6.11.6.4.1.23.1.1.3 TFCS

|                                                                                                                          |                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                              |
| TFCS                                                                                                                     | (32 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                |

## 6.11.6.4.1.23.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                 |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCl code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72 (alt. 0.64)           |

## 6.11.6.4.1.23.2 Downlink

## 6.11.6.4.1.23.2.1 Transport channel parameters

## 6.11.6.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

|              |                      |           |       |
|--------------|----------------------|-----------|-------|
| Higher layer | RAB/Signalling RB    |           | RAB   |
| RLC          | Logical channel type |           | DTCH  |
|              | RLC mode             |           | AM    |
|              | Payload sizes, bit   |           | 320   |
|              | Max data rate, bps   |           | 8 000 |
|              | AMD PDU header, bit  |           | 16    |
| MAC          | MAC header, bit      |           | 0     |
|              | MAC multiplexing     |           | N/A   |
| Layer 1      | TrCH type            |           | DCH   |
|              | TB sizes, bit        |           | 336   |
|              | TFS                  | TF0, bits | 0x336 |
|              |                      | TF1, bits | 1x336 |
|              | TTI, ms              |           | 40    |
|              | Coding type          |           | TC    |
|              | CRC, bit             |           | 16    |

|  |                                                     |            |
|--|-----------------------------------------------------|------------|
|  | Max number of bits/TTI after channel coding         | 1 068      |
|  | Max number of bits/radio frame before rate matching | 267        |
|  | RM attribute                                        | 135 to 175 |

#### 6.11.6.4.1.23.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.23.2.1.3 TFCS

|           |                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------|
| TFCS size | 4                                                                                                                  |
| TFCS      | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)                                                  |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |

#### 6.11.6.4.1.23.2.2 Physical channel parameters

|                                                                                               |                                      |                             |
|-----------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 1024 chips                  |
|                                                                                               | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 228 bits                    |
|                                                                                               | TFCI code word                       | 16 bits                     |
|                                                                                               | Puncturing limit                     | 0.56                        |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. |                                      |                             |

#### 6.11.6.4.1.23a Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.23a.1 Uplink

##### 6.11.6.4.1.23a.1.1 Transport channel parameters

##### 6.11.6.4.1.23a.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

|              |                                                     |           |                    |
|--------------|-----------------------------------------------------|-----------|--------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                |
| RLC          | Logical channel type                                |           | DTCH               |
|              | RLC mode                                            |           | AM                 |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)     |
|              | Max data rate, bps                                  |           | 8 000              |
|              | AMD PDU header, bit                                 |           | 16                 |
| MAC          | MAC header, bit                                     |           | 0                  |
|              | MAC multiplexing                                    |           | N/A                |
| Layer 1      | TrCH type                                           |           | DCH                |
|              | TB sizes, bit                                       |           | 336 (alt. 144)     |
|              | TFS                                                 | TF0, bits | 0x336 (alt. 0x144) |
|              |                                                     | TF1, bits | 1x336 (alt. 1x144) |
|              |                                                     | TF2, bits | N/A (alt. 5x144)   |
|              | TTI, ms                                             |           | 40 (alt. 80)       |
|              | Coding type                                         |           | TC                 |
|              | CRC, bit                                            |           | 16                 |
|              | Max number of bits/TTI after channel coding         |           | 1 068 (alt. 2 412) |
|              | Max number of bits/radio frame before rate matching |           | 267 (alt. 302)     |
|              | RM attribute                                        |           | 135 to 175         |

##### 6.11.6.4.1.23a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

##### 6.11.6.4.1.23a.1.1.3 TFCS

|           |                                                                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 4 (alt. 6)                                                                                                                                         |
| TFCS      | (8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                  |

## 6.11.6.4.1.23a.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 226 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.56 (alt. 0.48)            |

## 6.11.6.4.1.23a.2 Downlink

See clause 6.11.6.4.1.23.2.

## 6.11.6.4.1.23b Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.23b.1 Uplink

## 6.11.6.4.1.23b.1.1 Transport channel parameters

## 6.11.6.4.1.23b.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

|              |                                                     |                    |
|--------------|-----------------------------------------------------|--------------------|
| Higher layer | RAB/Signalling RB                                   | RAB                |
| RLC          | Logical channel type                                | DTCH               |
|              | RLC mode                                            | AM                 |
|              | Payload sizes, bit                                  | 320 (alt. 128)     |
|              | Max data rate, bps                                  | 16 000             |
|              | AMD PDU header, bit                                 | 16                 |
| MAC          | MAC header, bit                                     | 0                  |
|              | MAC multiplexing                                    | N/A                |
| Layer 1      | TrCH type                                           | DCH                |
|              | TB sizes, bit                                       | 336 (alt. 144)     |
|              | TFS                                                 | TF0, bits          |
|              |                                                     | 0x336 (alt. 0x144) |
|              |                                                     | 1x336 (alt. 1x144) |
|              |                                                     | 2x336 (alt. 5x144) |
|              | TTI, ms                                             | 40                 |
|              | Coding type                                         | TC                 |
|              | CRC, bit                                            | 16                 |
|              | Max number of bits/TTI after channel coding         | 2 124 (alt. 2 412) |
|              | Max number of bits/radio frame before rate matching | 531 (alt. 603)     |
|              | RM attribute                                        | 135 to 175         |

## 6.11.6.4.1.23b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

## 6.11.6.4.1.23b.1.1.3 TFCS

|                                                                                                                         |                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 6                                                                                              |
| TFCS                                                                                                                    | (16 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                |

## 6.11.6.4.1.23b.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.68 (alt. 0.60)            |

## 6.11.6.4.1.23b.2 Downlink

## 6.11.6.4.1.23b.2.1 Transport channel parameters

## 6.11.6.4.1.23b.2.1.1 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

|              |                                                     |            |
|--------------|-----------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                   | RAB        |
| RLC          | Logical channel type                                | DTCH       |
|              | RLC mode                                            | AM         |
|              | Payload sizes, bit                                  | 320        |
|              | Max data rate, bps                                  | 16 000     |
|              | AMD PDU header, bit                                 | 16         |
| MAC          | MAC header, bit                                     | 0          |
|              | MAC multiplexing                                    | N/A        |
| Layer 1      | TrCH type                                           | DCH        |
|              | TB sizes, bit                                       | 336        |
|              | TFS                                                 | TF0, bits  |
|              |                                                     | TF1, bits  |
|              |                                                     | TF2, bits  |
|              | TTI, ms                                             | 40         |
|              | Coding type                                         | TC         |
|              | CRC, bit                                            | 16         |
|              | Max number of bits/TTI after channel coding         | 2 124      |
|              | Max number of bits/radio frame before rate matching | 531        |
|              | RM attribute                                        | 135 to 175 |

## 6.11.6.4.1.23b.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.23b.2.1.3 TFCS

|                                                                                                                         |                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 6                                                                                              |
| TFCS                                                                                                                    | (16 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                |

## 6.11.6.4.1.23b.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

## 6.11.6.4.1.23c Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.23c.1 Uplink

## 6.11.6.4.1.23c.1.1 Transport channel parameters

## 6.11.6.4.1.23c.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

|              |                      |                |
|--------------|----------------------|----------------|
| Higher layer | RAB/Signalling RB    | RAB            |
| RLC          | Logical channel type | DTCH           |
|              | RLC mode             | AM             |
|              | Payload sizes, bit   | 320 (alt. 128) |
|              | Max data rate, bps   | 32 000         |
|              | AMD PDU header, bit  | 16             |
| MAC          | MAC header, bit      | 0              |
|              | MAC multiplexing     | N/A            |
| Layer 1      | TrCH type            | DCH            |
|              | TB sizes, bit        | 336 (alt. 144) |

|  |                                                     |           |                     |
|--|-----------------------------------------------------|-----------|---------------------|
|  | TFS                                                 | TF0, bits | 0x336 (alt. 0x144)  |
|  |                                                     | TF1, bits | 1x336 (alt. 1x144)  |
|  |                                                     | TF2, bits | 2x336 (alt. 5x144)  |
|  |                                                     | TF3, bits | 3x336 (alt. 7x144)  |
|  |                                                     | TF4, bits | 4x336 (alt. 10x144) |
|  | TTI, ms                                             |           | 40                  |
|  | Coding type                                         |           | TC                  |
|  | CRC, bit                                            |           | 16                  |
|  | Max number of bits/TTI after channel coding         |           | 4 236 (alt. 4 812)  |
|  | Max number of bits/radio frame before rate matching |           | 1 059 (alt. 1 203)  |
|  | RM attribute                                        |           | 135 to 175          |

#### 6.11.6.4.1.23c.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.23c.1.1.3 TFCS

|                                                                                                                         |                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 10                                                                                                                                      |
| TFCS                                                                                                                    | (32 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1),<br>(TF3,TF1), (TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                         |

#### 6.11.6.4.1.23c.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                 |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72 (alt. 0.64)           |

#### 6.11.6.4.1.23c.2 Downlink

#### 6.11.6.4.1.23c.2.1 Transport channel parameters

##### 6.11.6.4.1.23c.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | AM         |
|              | Payload sizes, bit                                  |           | 320        |
|              | Max data rate, bps                                  |           | 32 000     |
|              | AMD PDU header, bit                                 |           | 16         |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 336        |
|              | TFS                                                 | TF0, bits | 0x336      |
|              |                                                     | TF1, bits | 1x336      |
|              |                                                     | TF2, bits | 2x336      |
|              |                                                     | TF3, bits | 3x336      |
|              |                                                     | TF4, bits | 4x336      |
|              | TTI, ms                                             |           | 40         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 4 236      |
|              | Max number of bits/radio frame before rate matching |           | 1 059      |
|              | RM attribute                                        |           | 135 to 175 |

#### 6.11.6.4.1.23c.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.23c.2.1.3 TFCS

|                                                                                                                         |                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 10                                                                                                                                      |
| TFCS                                                                                                                    | (32 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1),<br>(TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                         |

#### 6.11.6.4.1.23c.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 3 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 716                          |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.60                         |

6.11.6.4.1.23d Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.11.6.4.1.23d.1 Uplink

##### 6.11.6.4.1.23d.1.1 Transport channel parameters

##### 6.11.6.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

|              |                                                     |           |                    |
|--------------|-----------------------------------------------------|-----------|--------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                |
| RLC          | Logical channel type                                |           | DTCH               |
|              | RLC mode                                            |           | AM                 |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)     |
|              | Max data rate, bps                                  |           | 32 000             |
|              | AMD PDU header, bit                                 |           | 16                 |
| MAC          | MAC header, bit                                     |           | 0                  |
|              | MAC multiplexing                                    |           | N/A                |
| Layer 1      | TrCH type                                           |           | DCH                |
|              | TB sizes, bit                                       |           | 336 (alt. 144)     |
|              | TFS                                                 | TF0, bits | 0x336 (alt. 0x144) |
|              |                                                     | TF1, bits | 1x336 (alt. 1x144) |
|              |                                                     | TF2, bits | 2x336 (alt. 5x144) |
|              | TTI, ms                                             |           | 20                 |
|              | Coding type                                         |           | TC                 |
|              | CRC, bit                                            |           | 16                 |
|              | Max number of bits/TTI after channel coding         |           | 2 124 (alt. 2 412) |
|              | Max number of bits/radio frame before rate matching |           | 1 062 (alt. 1 206) |
|              | RM attribute                                        |           | 135 to 175         |

##### 6.11.6.4.1.23d.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.23d.1.1.3 TFCS

|                                                                                                                         |                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 6                                                                                        |
| TFCS                                                                                                                    | (32 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                          |

#### 6.11.6.4.1.23d.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                 |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |

|  |                  |                  |
|--|------------------|------------------|
|  | TFCI code word   | 16 bits          |
|  | TPC              | 2 bits           |
|  | Puncturing Limit | 0.72 (alt. 0.64) |

## 6.11.6.4.1.23d.2 Downlink

## 6.11.6.4.1.23d.2.1 Transport channel parameters

## 6.11.6.4.1.23d.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

|              |                                                     |            |
|--------------|-----------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                   | RAB        |
| RLC          | Logical channel type                                | DTCH       |
|              | RLC mode                                            | AM         |
|              | Payload sizes, bit                                  | 320        |
|              | Max data rate, bps                                  | 32 000     |
|              | AMD PDU header, bit                                 | 16         |
| MAC          | MAC header, bit                                     | 0          |
|              | MAC multiplexing                                    | N/A        |
| Layer 1      | TrCH type                                           | DCH        |
|              | TB sizes, bit                                       | 336        |
|              | TFS                                                 | TF0, bits  |
|              |                                                     | TF1, bits  |
|              |                                                     | TF2, bits  |
|              | TTI, ms                                             | 20         |
|              | Coding type                                         | TC         |
|              | CRC, bit                                            | 16         |
|              | Max number of bits/TTI after channel coding         | 2 124      |
|              | Max number of bits/radio frame before rate matching | 1 062      |
|              | RM attribute                                        | 135 to 175 |

## 6.11.6.4.1.23d.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.23d.2.1.3 TFCS

|                                                                                                                         |                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 6                                                                                        |
| TFCS                                                                                                                    | (32 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                          |

## 6.11.6.4.1.23d.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 3 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 716 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

## 6.11.6.4.1.24 Void

## 6.11.6.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.25.1 Uplink

See clause 6.11.6.4.1.23.1.

## 6.11.6.4.1.25.2 Downlink

## 6.11.6.4.1.25.2.1 Transport channel parameters

## 6.11.6.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB



|              |                                                     |            |
|--------------|-----------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                   | RAB        |
| RLC          | Logical channel type                                | DTCH       |
|              | RLC mode                                            | AM         |
|              | Payload sizes, bit                                  | 320        |
|              | Max data rate, bps                                  | 64 000     |
|              | AMD PDU header, bit                                 | 16         |
| MAC          | MAC header, bit                                     | 0          |
|              | MAC multiplexing                                    | N/A        |
| Layer 1      | TrCH type                                           | DCH        |
|              | TB sizes, bit                                       | 336        |
|              | TFS                                                 | TF0, bits  |
|              |                                                     | TF1, bits  |
|              |                                                     | TF2, bits  |
|              |                                                     | TF3, bits  |
|              |                                                     | TF4, bits  |
|              | TTI, ms                                             | 20         |
|              | Coding type                                         | TC         |
|              | CRC, bit                                            | 16         |
|              | Max number of bits/TTI after channel coding         | 4 236      |
|              | Max number of bits/radio frame before rate matching | 2 118      |
|              | RM attribute                                        | 130 to 170 |

#### 6.11.6.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.25.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 10                                                                                                                                                |
| TFCS                                                                                                                     | (64 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                   |

#### 6.11.6.4.1.25.2.2 Physical channel parameters

| DPCH Downlink                        | Physical Configuration 1                                       | Physical Configuration 2     |
|--------------------------------------|----------------------------------------------------------------|------------------------------|
| Midamble                             | 1024 chips                                                     | 1024 chips                   |
| Codes and time slots                 | SF32 x 3 codes x 1 time slot<br>+ SF32 x 2 codes x 1 time slot | SF32 x 9 codes x 1 time slot |
| Max. Number of data bits/radio frame | 1 204 bits                                                     | 2 180 bits                   |
| TFCI code word                       | 16 bits                                                        | 16 bits                      |
| Puncturing limit                     | 0.52                                                           | 0.96                         |

#### 6.11.6.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.11.6.4.1.26.1 Uplink

#### 6.11.6.4.1.26.1.1 Transport channel parameters

#### 6.11.6.4.1.26.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

|              |                      |                |
|--------------|----------------------|----------------|
| Higher layer | RAB/Signalling RB    | RAB            |
| RLC          | Logical channel type | DTCH           |
|              | RLC mode             | AM             |
|              | Payload sizes, bit   | 320 (alt. 128) |
|              | Max data rate, bps   | 64 000         |
|              | AMD PDU header, bit  | 16             |
| MAC          | MAC header, bit      | 0              |
|              | MAC multiplexing     | N/A            |
| Layer 1      | TrCH type            | DCH            |
|              | TB sizes, bit        | 336 (alt. 144) |

|  |                                                     |           |                     |
|--|-----------------------------------------------------|-----------|---------------------|
|  | TFS                                                 | TF0, bits | 0x336 (alt. 0x144)  |
|  |                                                     | TF1, bits | 1x336 (alt. 1x144)  |
|  |                                                     | TF2, bits | 2x336 (alt. 3x144)  |
|  |                                                     | TF3, bits | 3x336 (alt. 7x144)  |
|  |                                                     | TF4, bits | 4x336 (alt. 10x144) |
|  | TTI, ms                                             |           | 20                  |
|  | Coding type                                         |           | TC                  |
|  | CRC, bit                                            |           | 16                  |
|  | Max number of bits/TTI after channel coding         |           | 4 236 (alt. 4 812)  |
|  | Max number of bits/radio frame before rate matching |           | 2 118 (alt. 2 406)  |
|  | RM attribute                                        |           | 130 to 170          |

#### 6.11.6.4.1.26.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.26.1.1.3 TFCS

|           |                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                |
| TFCS      | (64 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |

#### 6.11.6.4.1.26.1.2 Physical channel parameters

| DPCH Uplink |                                      | Physical Configuration 1                                    | Physical Configuration 2                                   |
|-------------|--------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|
|             | Midamble                             | 1024 chips                                                  | 1024 chips                                                 |
|             | Codes and time slots                 | SF32 x 1 code x 1 time slot +<br>SF8 x 1 code x 1 time slot | SF4 x 1 code x 1 time slot +<br>SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 1148 bits                                                   | 2 784 bits                                                 |
|             | TFCI code word                       | 16 bits                                                     | 16 bits                                                    |
|             | TPC                                  | 2 bits                                                      | 2 bits                                                     |
|             | Puncturing Limit                     | 0.48 (alt. 0.44)                                            | 1                                                          |

#### 6.11.6.4.1.26.2 Downlink

See clause 6.11.6.4.1.25.2.

#### 6.11.6.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.27.1 Uplink

See clause 6.11.6.4.1.26.1.

##### 6.11.6.4.1.27.2 Downlink

#### 6.11.6.4.1.27.2.1 Transport channel parameters

##### 6.11.6.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

|              |                      |           |         |
|--------------|----------------------|-----------|---------|
| Higher layer | RAB/Signalling RB    |           | RAB     |
| RLC          | Logical channel type |           | DTCH    |
|              | RLC mode             |           | AM      |
|              | Payload sizes, bit   |           | 320     |
|              | Max data rate, bps   |           | 128 000 |
|              | AMD PDU header, bit  |           | 16      |
| MAC          | MAC header, bit      |           | 0       |
|              | MAC multiplexing     |           | N/A     |
| Layer 1      | TrCH type            |           | DCH     |
|              | TB sizes, bit        |           | 336     |
|              | TFS                  | TF0, bits | 0x336   |
|              |                      | TF1, bits | 1x336   |
|              |                      | TF2, bits | 2x336   |

|  |                                                     |           |            |
|--|-----------------------------------------------------|-----------|------------|
|  |                                                     | TF3, bits | 4x336      |
|  |                                                     | TF4, bits | 8x336      |
|  | TTI, ms                                             |           | 20         |
|  | Coding type                                         |           | TC         |
|  | CRC, bit                                            |           | 16         |
|  | Max number of bits/TTI after channel coding         |           | 8 460      |
|  | Max number of bits/radio frame before rate matching |           | 4 230      |
|  | RM attribute                                        |           | 120 to 160 |

#### 6.11.6.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.27.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 10                                                                                                                                                 |
| TFCS                                                                                                                     | (128 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                    |

#### 6.11.6.4.1.27.2.2 Physical channel parameters

| DPCH Downlink |                                      | Physical Configuration 1     | Physical Configuration 2                                         |
|---------------|--------------------------------------|------------------------------|------------------------------------------------------------------|
|               | Midamble                             | 512 chips                    | 512 chips                                                        |
|               | Codes and time slots                 | SF32 x 8 codes x 1 time slot | SF32 x 4 codes x 2 time slots<br>+ SF32 x 3 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 2 192 bits                   | 3848 bits                                                        |
|               | TFCI code word                       | 16 bits                      | 16 bits                                                          |
|               | Puncturing limit                     | 0.48                         | 0.84                                                             |

#### 6.11.6.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.28.1 Uplink

##### 6.11.6.4.1.28.1.1 Transport channel parameters

##### 6.11.6.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

|              |                                                     |           |                     |
|--------------|-----------------------------------------------------|-----------|---------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                 |
| RLC          | Logical channel type                                |           | DTCH                |
|              | RLC mode                                            |           | AM                  |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)      |
|              | Max data rate, bps                                  |           | 128 000             |
|              | AMD PDU header, bit                                 |           | 16                  |
| MAC          | MAC header, bit                                     |           | 0                   |
|              | MAC multiplexing                                    |           | N/A                 |
| Layer 1      | TrCH type                                           |           | DCH                 |
|              | TB sizes, bit                                       |           | 336 (alt. 144)      |
|              | TFS                                                 | TF0, bits | 0x336 (alt. 0x144)  |
|              |                                                     | TF1, bits | 1x336 (alt. 1x144)  |
|              |                                                     | TF2, bits | 2x336 (alt. 7x144)  |
|              |                                                     | TF3, bits | 4x336 (alt. 14x144) |
|              |                                                     | TF4, bits | 8x336 (alt. 20x144) |
|              | TTI, ms                                             |           | 20                  |
|              | Coding type                                         |           | TC                  |
|              | CRC, bit                                            |           | 16                  |
|              | Max number of bits/TTI after channel coding         |           | 8 460 ( alt. 9 612) |
|              | Max number of bits/radio frame before rate matching |           | 4 230 (alt. 4 806)  |
|              | RM attribute                                        |           | 120 to 160          |

## 6.11.6.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

## 6.11.6.4.1.28.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 9 (alt.10)                                                                                                                                                                                                                                                                 |
| TFCS                                                                                                                     | (128 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                            |

## 6.11.6.4.1.28.1.2 Physical channel parameters

| DPCCH Uplink                         | Physical Configuration 1  | Physical Configuration 2                                   |
|--------------------------------------|---------------------------|------------------------------------------------------------|
| Midamble                             | 512 chips                 | 512 chips                                                  |
| Codes and time slots                 | SF4 x 1 code x 1 timeslot | SF4 x 1 code x 2 timeslots +<br>SF8 x 1 code x 1 time slot |
| Max. Number of data bits/radio frame | 2 064 bits                | 5 376 bits                                                 |
| TFCI code word                       | 16 bits                   | 16 bits                                                    |
| TPC                                  | 2 bits                    | 2 bits                                                     |
| Puncturing Limit                     | 0.44 (alt. 0.40)          | 1                                                          |

## 6.11.6.4.1.28.2 Downlink

See clause 6.11.6.4.1.27.2.

## 6.11.6.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.11.6.4.1.29.1 Uplink

See clause 6.11.6.4.1.26.1.

## 6.11.6.4.1.29.2 Downlink

## 6.11.6.4.1.29.2.1 Transport channel parameters

## 6.11.6.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB        |
| RLC          | Logical channel type                                |           | DTCH       |
|              | RLC mode                                            |           | AM         |
|              | Payload sizes, bit                                  |           | 320        |
|              | Max data rate, bps                                  |           | 144 000    |
|              | AMD PDU header, bit                                 |           | 16         |
| MAC          | MAC header, bit                                     |           | 0          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | DCH        |
|              | TB sizes, bit                                       |           | 336        |
|              | TFS                                                 | TF0, bits | 0x336      |
|              |                                                     | TF1, bits | 1x336      |
|              |                                                     | TF2, bits | 2x336      |
|              |                                                     | TF3, bits | 4x336      |
|              |                                                     | TF4, bits | 8x336      |
|              |                                                     | TF5, bits | 9x336      |
|              | TTI, ms                                             |           | 20         |
|              | Coding type                                         |           | TC         |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI after channel coding         |           | 9 516      |
|              | Max number of bits/radio frame before rate matching |           | 4 758      |
|              | RM attribute                                        |           | 140 to 180 |

## 6.11.6.4.1.29.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.29.2.1.3 TFCS

|           |                                                                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                        |
| TFCS      | (144 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                        |

## 6.11.6.4.1.29.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF32 x 9 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 2468 bits                    |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.48                         |

## 6.11.6.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.11.6.4.1.30.1 Uplink

## 6.11.6.4.1.30.1.1 Transport channel parameters

## 6.11.6.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB

|              |                                                     |           |                     |
|--------------|-----------------------------------------------------|-----------|---------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                 |
| RLC          | Logical channel type                                |           | DTCH                |
|              | RLC mode                                            |           | AM                  |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)      |
|              | Max data rate, bps                                  |           | 144 000             |
|              | AMD PDU header, bit                                 |           | 16                  |
| MAC          | MAC header, bit                                     |           | 0                   |
|              | MAC multiplexing                                    |           | N/A                 |
| Layer 1      | TrCH type                                           |           | DCH                 |
|              | TB sizes, bit                                       |           | 336 (alt. 144)      |
|              | TFS                                                 | TF0, bits | 0x336 (alt. 0x144)  |
|              |                                                     | TF1, bits | 1x336 (alt. 1x144)  |
|              |                                                     | TF2, bits | 2x336 (alt. 10x144) |
|              |                                                     | TF3, bits | 4x336 (alt. 20x144) |
|              |                                                     | TF4, bits | 8x336 (alt. 30x144) |
|              |                                                     | TF5, bits | 9x336 (alt. 45x144) |
|              | TTI, ms                                             |           | 20 (alt. 40)        |
|              | Coding type                                         |           | TC                  |
|              | CRC, bit                                            |           | 16                  |
|              | Max number of bits/TTI after channel coding         |           | 9 516 (alt. 21 624) |
|              | Max number of bits/radio frame before rate matching |           | 4 758 (alt. 5 406)  |
|              | RM attribute                                        |           | 140 to 180          |

## 6.11.6.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

## 6.11.6.4.1.30.1.1.3 TFCS

|           |                                                                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                        |
| TFCS      | (144 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                        |

## 6.11.6.4.1.30.1.2 Physical channel parameters

|             |                                      |                                                         |
|-------------|--------------------------------------|---------------------------------------------------------|
| DPCH Uplink | Midamble                             | 512 chips                                               |
|             | Codes and time slots                 | SF32 x 1 code x 1 time slot + SF4 x 1 codex 1 time slot |
|             | Max. Number of data bits/radio frame | 2340 bits                                               |
|             | TFCI code word                       | 16 bits                                                 |
|             | TPC                                  | 2 bits                                                  |
|             | Puncturing Limit                     | 0.44 (alt. 0.40)                                        |

## 6.11.6.4.1.30.2 Downlink

See clause 6.11.6.4.1.29.2.

## 6.11.6.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.11.6.4.1.31.1 Uplink

See clause 6.11.6.4.1.26.1.

## 6.11.6.4.1.31.2 Downlink

## 6.11.6.4.1.31.2.1 Transport channel parameters

## 6.11.6.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

|              |                                                     |           |                     |
|--------------|-----------------------------------------------------|-----------|---------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                 |
| RLC          | Logical channel type                                |           | DTCH                |
|              | RLC mode                                            |           | AM                  |
|              | Payload sizes, bit                                  |           | 320                 |
|              | Max data rate, bps                                  |           | 384 000             |
|              | AMD PDU header, bit                                 |           | 16                  |
| MAC          | MAC header, bit                                     |           | 0                   |
|              | MAC multiplexing                                    |           | N/A                 |
| Layer 1      | TrCH type                                           |           | DCH                 |
|              | TB sizes, bit                                       |           | 336                 |
|              | TFS                                                 | TF0, bits | 0x336               |
|              |                                                     | TF1, bits | 1x336               |
|              |                                                     | TF2, bits | 2x336               |
|              |                                                     | TF3, bits | 4x336               |
|              |                                                     | TF4, bits | 8x336               |
|              |                                                     | TF5, bits | N/A (alt. 12x336)   |
|              |                                                     | TF6, bits | N/A (alt. 16x336)   |
|              | TTI, ms                                             |           | 10 (alt. 20)        |
|              | Coding type                                         |           | TC                  |
|              | CRC, bit                                            |           | 16                  |
|              | Max number of bits/TTI after channel coding         |           | 8 460 (alt. 16 920) |
|              | Max number of bits/radio frame before rate matching |           | 8 460 (alt. 8 460)  |
|              | RM attribute                                        |           | 135 to 175          |

## 6.11.6.4.1.31.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.31.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 10 (alt.14)                                                                                                                                                                                                                                                                                                                           |
| TFCS                                                                                                                     | (256 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                       |

## 6.11.6.4.1.31.2.2 Physical channel parameters

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                     |
|               | Codes and time slots                 | SF32 x 8 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 4 400 bits                    |
|               | TFCI code word                       | 16 bits                       |
|               | Puncturing limit                     | 0.48                          |

## 6.11.6.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

## 6.11.6.4.1.32.1 Uplink

See clause 6.11.6.4.1.26.1.

## 6.11.6.4.1.32.2 Downlink

## 6.11.6.4.1.32.2.1 Transport channel parameters

## 6.11.6.4.1.32.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

|              |                                                     |           |                      |
|--------------|-----------------------------------------------------|-----------|----------------------|
| Higher layer | RAB/Signalling RB                                   |           | RAB                  |
| RLC          | Logical channel type                                |           | DTCH                 |
|              | RLC mode                                            |           | AM                   |
|              | Payload sizes, bit                                  |           | 320                  |
|              | Max data rate, bps                                  |           | 384 000              |
|              | AMD PDU header, bit                                 |           | 16                   |
| MAC          | MAC header, bit                                     |           | 0                    |
|              | MAC multiplexing                                    |           | N/A                  |
| Layer 1      | TrCH type                                           |           | DCH                  |
|              | TB sizes, bit                                       |           | 336                  |
|              | TFS                                                 | TF0, bits | 0x336                |
|              |                                                     | TF1, bits | 1x336                |
|              |                                                     | TF2, bits | 2x336                |
|              |                                                     | TF3, bits | 4x336                |
|              |                                                     | TF4, bits | 8x336                |
|              |                                                     | TF5, bits | 12x336               |
|              |                                                     | TF6, bits | N/A (alt. 16x336)    |
|              |                                                     | TF7, bits | N/A (alt. 20x336)    |
|              |                                                     | TF8, bits | N/A (alt. 24x336)    |
|              | TTI, ms                                             |           | 10 (alt. 20)         |
|              | Coding type                                         |           | TC                   |
|              | CRC, bit                                            |           | 16                   |
|              | Max number of bits/TTI after channel coding         |           | 12 684 (alt. 25 368) |
|              | Max number of bits/radio frame before rate matching |           | 12 684 (alt. 12 684) |
|              | RM attribute                                        |           | 110 to 150           |

## 6.11.6.4.1.32.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.32.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 12 (alt.18)                                                                                                                                                                                                                                                                                                                                                                                                   |
| TFCS                                                                                                                     | (384 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                               |

## 6.11.6.4.1.32.2.2 Physical channel parameters

| DPCH Downlink |                                      | Physical Configuration 1      | Physical Configuration 2                                     |
|---------------|--------------------------------------|-------------------------------|--------------------------------------------------------------|
|               | Midamble                             | 512 chips                     | 512 chips                                                    |
|               | Codes and time slots                 | SF32 x 8 codes x 3 time slots | SF32 x 6 codes x 4 time slots + SF32 x 4 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 6 608 bits                    | 7 712 bits                                                   |
|               | TFCI code word                       | 16 bits                       | 16 bits                                                      |
|               | Puncturing Limit                     | 0.48                          | 0.60                                                         |

6.11.6.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.33.1 Uplink

See clause 6.11.6.4.1.28.1.

6.11.6.4.1.33.2 Downlink

See clause 6.11.6.4.1.32.2.

6.11.6.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.34.1 Uplink

6.11.6.4.1.34.1.1 Transport channel parameters

6.11.6.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                   |           | RAB                  |
|--------------|-----------------------------------------------------|-----------|----------------------|
| RLC          | Logical channel type                                |           | DTCH                 |
|              | RLC mode                                            |           | AM                   |
|              | Payload sizes, bit                                  |           | 320                  |
|              | Max data rate, bps                                  |           | 384 000              |
|              | AMD PDU header, bit                                 |           | 16                   |
| MAC          | MAC header, bit                                     |           | 0                    |
|              | MAC multiplexing                                    |           | N/A                  |
| Layer 1      | TrCH type                                           |           | DCH                  |
|              | TB sizes, bit                                       |           | 336                  |
|              | TFS                                                 | TF0, bits | 0x336                |
|              |                                                     | TF1, bits | 1x336                |
|              |                                                     | TF2, bits | 2x336                |
|              |                                                     | TF3, bits | 4x336                |
|              |                                                     | TF4, bits | 8x336                |
|              |                                                     | TF5, bits | 12x336               |
|              |                                                     | TF6, bits | N/A (alt. 16x336)    |
|              |                                                     | TF7, bits | N/A (alt. 20x336)    |
|              |                                                     | TF8, bits | N/A (alt. 24x336)    |
|              | TTI, ms                                             |           | 10 (alt. 20)         |
|              | Coding type                                         |           | TC                   |
|              | CRC, bit                                            |           | 16                   |
|              | Max number of bits/TTI after channel coding         |           | 12 684 (alt. 25 368) |
|              | Max number of bits/radio frame before rate matching |           | 12 684               |
|              | RM attribute                                        |           | 110 to 150           |

6.11.6.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.34.1.1.3 TFCS

|           |                       |
|-----------|-----------------------|
| TFCS size | 12 (alt.18)           |
| TFCS      | (384 kbps RAB, DCCH)= |



|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                          | (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,<br>TF0), (TF8, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                             |

#### 6.11.6.4.1.34.1.2 Physical channel parameters

| DPCH Uplink |                                         | Physical Configuration 1    | Physical Configuration 2                                                                                            |
|-------------|-----------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------|
|             | Midamble                                | 512 chips                   | 512 chips                                                                                                           |
|             | Codes and time slots                    | SF4 x 1 code x 3 time slots | SF4 x 1 code x 5 timeslots +<br>SF8 x 1 code x 2 timeslots<br>(alt. {SF4 x 1 code + SF8 x 1<br>code} x 4 timeslots) |
|             | Max. Number of data<br>bits/radio frame | 6 480 bits                  | 13 104 bits                                                                                                         |
|             | TFCI code word                          | 16 bits                     | 16 bits                                                                                                             |
|             | TPC                                     | 2 bits                      | 2 bits                                                                                                              |
|             | Puncturing Limit                        | 0.48                        | 1                                                                                                                   |

#### 6.11.6.4.1.34.2 Downlink

See clause 6.11.6.4.1.32.2.

#### 6.11.6.4.1.35 Interactive or background / UL:64 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.35.1 Uplink

##### 6.11.6.4.1.35.1.1 Transport channel parameters

See clause 6.11.6.4.1.26.1.1.

##### 6.11.6.4.1.35.1.1.2 Physical channel parameters

| DPCH Uplink |                                      |                            |
|-------------|--------------------------------------|----------------------------|
|             | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.88 (alt. 0.80)           |

##### 6.11.6.4.1.35.2 Downlink

##### 6.11.6.4.1.35.2.1 Transport channel parameters

##### 6.11.6.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

| Higher layer | RAB/Signalling RB    |           | RAB       |
|--------------|----------------------|-----------|-----------|
| RLC          | Logical channel type |           | DTCH      |
|              | RLC mode             |           | AM        |
|              | Payload sizes, bit   |           | 640       |
|              | Max data rate, bps   |           | 2 048 000 |
|              | AMD PDU header, bit  |           | 16        |
| MAC          | MAC header, bit      |           | 0         |
|              | MAC multiplexing     |           | N/A       |
| Layer 1      | TrCH type            |           | DCH       |
|              | TB sizes, bit        |           | 656       |
|              | TFS                  | TF0, bits | 0x656     |
|              |                      | TF1, bits | 1x656     |
|              |                      | TF2, bits | 2x656     |
|              |                      | TF3, bits | 4x656     |

| Higher layer | RAB/Signalling RB                                   | RAB                   |
|--------------|-----------------------------------------------------|-----------------------|
|              | TF4, bits                                           | 8x656                 |
|              | TF5, bits                                           | 12x656                |
|              | TF6, bits                                           | 16x656                |
|              | TF7, bits                                           | 20x656                |
|              | TF8, bits                                           | 24x656                |
|              | TF9, bits                                           | 28x656                |
|              | TF10, bits                                          | 31x656 (alt. 32x656)  |
|              | TF11, bits                                          | N/A (alt. 36x656)     |
|              | TF12, bits                                          | N/A (alt. 40x656)     |
|              | TF13, bits                                          | N/A (alt. 44x656)     |
|              | TF14, bits                                          | N/A (alt. 48x656)     |
|              | TF15, bits                                          | N/A (alt. 52x656)     |
|              | TF16, bits                                          | N/A (alt. 56x656)     |
|              | TF17, bits                                          | N/A (alt. 60x656)     |
|              | TF18, bits                                          | N/A (alt. 64x656)     |
|              | TTI, ms                                             | 10 (alt. 20)          |
|              | Coding type                                         | TC                    |
|              | CRC, bit                                            | 16                    |
|              | Max number of bits/TTI after channel coding         | 62 565 (alt. 129 141) |
|              | Max number of bits/radio frame before rate matching | 62 565 (alt. 64 571)  |
|              | RM attribute                                        | 130 to 170            |

#### 6.11.6.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.35.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 21 (alt.38)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| TFCS                                                                                                                     | (2 048 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0), (TF9, TF0), (TF10, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1), (TF9, TF1)<br>(alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0),<br>(TF16, TF0), (TF17, TF0), (TF18, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, TF1),<br>(TF16, TF1), (TF17, TF1), (TF18, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

#### 6.11.6.4.1.35.2.2 Physical channel parameters

| DPCH Downlink |                                      | Physical Configuration 1    | Physical Configuration 2                                        |
|---------------|--------------------------------------|-----------------------------|-----------------------------------------------------------------|
|               | Midamble                             | 512 chips                   | 512 chips                                                       |
|               | Codes and time slots                 | SF1 x 1 code x 5 time slots | SF8 x 13 codes x 4 time slots +<br>SF8 x 12 codes x 7 time slot |
|               | Max. Number of data bits/radio frame | 44 144 bits (alt. 44 128)   | 37 520 bits (alt. 37 504)                                       |
|               | TFCI code word                       | 16 bits (alt. 32 bits)      | 16 bits (alt. 32 bits)                                          |
|               | Puncturing limit                     | 0.68 (alt.0.68)             | 0.56                                                            |

6.11.6.4.1.36 Void

6.11.6.4.1.37 Void

6.11.6.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38.1 Uplink

6.11.6.4.1.38.1.1 Transport channel parameters

6.11.6.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.11.6.4.1.23.1.1.1.

6.11.6.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

6.11.6.4.1.38.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                 |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.52 (alt. 0.48)           |

6.11.6.4.1.38.2 Downlink

6.11.6.4.1.38.2.1 Transport channel parameters

6.11.6.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.11.6.4.1.23.2.1.1.

6.11.6.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.

6.11.6.4.1.38.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                             |

6.11.6.4.1.38.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |

|  |                  |      |
|--|------------------|------|
|  | Puncturing limit | 0.52 |
|--|------------------|------|

6.11.6.4.1.38a Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38a.1 Uplink

6.11.6.4.1.38a.1.1 Transport channel parameters

6.11.6.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                   | RAB               |
|--------------|-----------------------------------------------------|-------------------|
| RLC          | Logical channel type                                | DTCH              |
|              | RLC mode                                            | AM                |
|              | Payload sizes, bit                                  | 320 (alt. 128)    |
|              | Max data rate, bps                                  | 0                 |
|              | AMD PDU header, bit                                 | 16                |
| MAC          | MAC header, bit                                     | 0                 |
|              | MAC multiplexing                                    | N/A               |
| Layer 1      | TrCH type                                           | DCH               |
|              | TB sizes, bit                                       | 336 (alt. 144)    |
|              | TFS                                                 | TF0, bits         |
|              |                                                     | 0x336 (alt 0x144) |
|              | TTI, ms                                             | 20                |
|              | Coding type                                         | TC                |
|              | CRC, bit                                            | 16                |
|              | Max number of bits/TTI after channel coding         | 0                 |
|              | Max number of bits/radio frame before rate matching | 0                 |
|              | RM attribute                                        | 130 to 170        |

6.11.6.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38a.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 6                                                                                                                                                                                                              |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                |

6.11.6.4.1.38a.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.68                        |

6.11.6.4.1.38a.2 Downlink

6.11.6.4.1.38a.2.1 Transport channel parameters

6.11.6.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

|              |                                                     |            |
|--------------|-----------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                   | RAB        |
| RLC          | Logical channel type                                | DTCH       |
|              | RLC mode                                            | AM         |
|              | Payload sizes, bit                                  | 320        |
|              | Max data rate, bps                                  | 0          |
|              | AMD PDU header, bit                                 | 16         |
| MAC          | MAC header, bit                                     | 0          |
|              | MAC multiplexing                                    | N/A        |
| Layer 1      | TrCH type                                           | DCH        |
|              | TB sizes, bit                                       | 336        |
|              | TFS TF0, bits                                       | 0x336      |
|              | TTI, ms                                             | 20         |
|              | Coding type                                         | TC         |
|              | CRC, bit                                            | 16         |
|              | Max number of bits/TTI after channel coding         | 0          |
|              | Max number of bits/radio frame before rate matching | 0          |
|              | RM attribute                                        | 130 to 170 |

#### 6.11.6.4.1.38a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1

#### 6.11.6.4.1.38a.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 6                                                                                                                                                                                                              |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                |

#### 6.11.6.4.1.38a.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCl code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

#### 6.11.6.4.1.38b Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.38b.1 Uplink

##### 6.11.6.4.1.38b.1.1 Transport channel parameters

##### 6.11.6.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

##### 6.11.6.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.11.6.4.1.23a.1.1.1.

##### 6.11.6.4.1.38b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

##### 6.11.6.4.1.38b.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12 (alt. 17)                                                                                                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1), |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1)<br>(alt.<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1)<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                    |

#### 6.11.6.4.1.38b.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.48 (alt. 0.56)            |

#### 6.11.6.4.1.38b.2 Downlink

##### 6.11.6.4.1.38b.2.1 Transport channel parameters

###### 6.11.6.4.1.38b.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

###### 6.11.6.4.1.38b.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.11.6.4.1.23.2.1.1.

###### 6.11.6.4.1.38b.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

##### 6.11.6.4.1.38b.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                                                                                              |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                               |

#### 6.11.6.4.1.38b.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.52                         |

#### 6.11.6.4.1.38c Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.38c.1 Uplink

###### 6.11.6.4.1.38c.1.1 Transport channel parameters

###### 6.11.6.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

#### 6.11.6.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.11.6.4.1.23d.1.1.1.

#### 6.11.6.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.38c.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 18 (alt. 17)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1)<br>(alt.<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

#### 6.11.6.4.1.38c.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                 |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 904 bits                   |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.52 (alt. 0.52)           |

#### 6.11.6.4.1.38c.2 Downlink

#### 6.11.6.4.1.38c.2.1 Transport channel parameters

##### 6.11.6.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

##### 6.11.6.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.11.6.4.1.23d.2.1.1.

##### 6.11.6.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.38c.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### 6.11.6.4.1.38c.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 4 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 960                          |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

6.11.6.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38d.1 Uplink

6.11.6.4.1.38d.1.1 Transport channel parameters

6.11.6.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                   |           | RAB                            | RAB            |
|--------------|-----------------------------------------------------|-----------|--------------------------------|----------------|
| RLC          | Logical channel type                                |           | DTCH                           | DTCH           |
|              | RLC mode                                            |           | AM                             | AM             |
|              | Payload sizes, bit                                  |           | 320 (alt. 128)                 | 320 (alt. 128) |
|              | Max data rate, bps                                  |           | 64 000                         | 64 000         |
|              | AMD PDU header, bit                                 |           | 16                             | 16             |
| MAC          | MAC header, bit                                     |           | 4                              | 4              |
|              | MAC multiplexing                                    |           | 2 logical channel multiplexing |                |
| Layer 1      | TrCH type                                           |           | DCH                            |                |
|              | TB sizes, bit                                       |           | 340 (alt. 148)                 |                |
|              | TFS                                                 | TF0, bits | 0x340 (alt 0x148)              |                |
|              |                                                     | TF1, bits | 1x340 (alt 1x148)              |                |
|              |                                                     | TF2, bits | 2x340 (alt 3x148)              |                |
|              |                                                     | TF3, bits | 3x340 (alt 7x148)              |                |
|              |                                                     | TF4, bits | 4x340 (alt 10x148)             |                |
|              | TTI, ms                                             |           | 20                             |                |
|              | Coding type                                         |           | TC                             |                |
|              | CRC, bit                                            |           | 16                             |                |
|              | Max number of bits/TTI after channel coding         |           | 4 284 (alt. 4 932)             |                |
|              | Max number of bits/radio frame before rate matching |           | 2 142 (alt. 2 466)             |                |
|              | RM attribute                                        |           | 130 to 170                     |                |

6.11.6.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38d.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0),(TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0),(TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0),(TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF0),(TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF4,TF0),(TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1),(TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1),(TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1),(TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF1),(TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF4,TF1),(TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

6.11.6.4.1.38d.1.2 Physical channel parameters



|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72 (alt. 0.64)           |

## 6.11.6.4.1.38d.2 Downlink

## 6.11.6.4.1.38d.2.1 Transport channel parameters

## 6.11.6.4.1.38d.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

## 6.11.6.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                   | RAB                            | RAB    |
|--------------|-----------------------------------------------------|--------------------------------|--------|
| RLC          | Logical channel type                                | DTCH                           | DTCH   |
|              | RLC mode                                            | AM                             | AM     |
|              | Payload sizes, bit                                  | 320                            | 320    |
|              | Max data rate, bps                                  | 64 000                         | 64 000 |
|              | AMD PDU header, bit                                 | 16                             | 16     |
| MAC          | MAC header, bit                                     | 4                              | 4      |
|              | MAC multiplexing                                    | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                           | DCH                            |        |
|              | TB sizes, bit                                       | 340                            |        |
|              | TFS                                                 | TF0, bits                      | 0x340  |
|              |                                                     | TF1, bits                      | 1x340  |
|              |                                                     | TF2, bits                      | 2x340  |
|              |                                                     | TF3, bits                      | 3x340  |
|              |                                                     | TF4, bits                      | 4x340  |
|              | TTI, ms                                             | 20                             |        |
|              | Coding type                                         | TC                             |        |
|              | CRC, bit                                            | 16                             |        |
|              | Max number of bits/TTI after channel coding         | 4 284                          |        |
|              | Max number of bits/radio frame before rate matching | 2 142                          |        |
|              | RM attribute                                        | 130 to 170                     |        |

## 6.11.6.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.38d.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 6.11.6.4.1.38d.2.2 Physical channel parameters

|               |                      |                              |
|---------------|----------------------|------------------------------|
| DPCH Downlink | Midamble             | 512 chips                    |
|               | Codes and time slots | SF32 x 7 codes x 1 time slot |

|  |                                      |            |
|--|--------------------------------------|------------|
|  | Max. Number of data bits/radio frame | 1 916 bits |
|  | TFCI code word                       | 16 bits    |
|  | Puncturing limit                     | 0.68       |

6.11.6.4.1.38e Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38e.1 Uplink

6.11.6.4.1.38e.1.1 Transport channel parameters

6.11.6.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.1.1.1.

6.11.6.4.1.38e.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.11.6.4.1.38a.1.1.2.

6.11.6.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38e.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                                                                                                                                                                                              |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1) |

NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.11.6.4.1.38e.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                    |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.68                        |

6.11.6.4.1.38e.2 Downlink

6.11.6.4.1.38e.2.1 Transport channel parameters

6.11.6.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

6.11.6.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

See clause 6.11.6.4.1.38a.2.1.2.

6.11.6.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.38e.2.1.4 TFCS

|           |                                                                  |
|-----------|------------------------------------------------------------------|
| TFCS size | 12                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)= |

|                                                                                                                         |                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                         | (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                              |

#### 6.11.6.4.1.38e.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

6.11.6.4.1.38f Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38f.1 Uplink

6.11.6.4.1.38f.1.1 Transport channel parameters

6.11.6.4.1.38f.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.1.1.1.

6.11.6.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.11.6.4.1.23a.1.1.1.

6.11.6.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38f.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 24 (alt. 32)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)<br>(alt.<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

#### 6.11.6.4.1.38f.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                    |

|  |                  |                 |
|--|------------------|-----------------|
|  | TFCI code word   | 16 bits         |
|  | TPC              | 2 bits          |
|  | Puncturing Limit | 0.48 (alt.0.56) |

#### 6.11.6.4.1.38f.2 Downlink

##### 6.11.6.4.1.38f.2.1 Transport channel parameters

##### 6.11.6.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

##### 6.11.6.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.11.6.4.1.23.2.1.1.

##### 6.11.6.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

##### 6.11.6.4.1.38f.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TFCS                                                                                                                    | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

##### 6.11.6.4.1.38f.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.52                         |

##### 6.11.6.4.1.38g Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.38g.1 Uplink

##### 6.11.6.4.1.38g.1.1 Transport channel parameters

##### 6.11.6.4.1.38g.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.1.1.1.

##### 6.11.6.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.11.6.4.1.23b.1.1.1.

##### 6.11.6.4.1.38g.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

## 6.11.6.4.1.38g.1.1.4 TFCS

|                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                 | 32 (alt. 31)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS                                                                                                                      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0),<br>(TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0),<br>(TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0),<br>(TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1),<br>(TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1),<br>(TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1)<br>(alt.<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0),<br>(TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0),<br>(TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0),<br>(TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),<br>(TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1),<br>(TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1),<br>(TF4,TF3,TF0,TF2,TF1)) |
| NOTE 1: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| NOTE 2: The alt. TFCS is used when the 16Kbps RAB alt. is used.                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 6.11.6.4.1.38g.1.2 Physical channel parameters

|             |                                      |                                                              |
|-------------|--------------------------------------|--------------------------------------------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                                                   |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot +<br>SF32 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 664 bits (alt. 696 bits)                                     |
|             | TFCI code word                       | 32 bits (alt. 16 bits)                                       |
|             | TPC                                  | 2 bits                                                       |
|             | Puncturing Limit                     | 0.56 (alt. 0.60)                                             |

## 6.11.6.4.1.38g.2 Downlink

## 6.11.6.4.1.38g.2.1 Transport channel parameters

## 6.11.6.4.1.38g.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

## 6.11.6.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

See clause 6.11.6.4.1.23b.2.1.1.

## 6.11.6.4.1.38g.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1

## 6.11.6.4.1.38g.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),<br>(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## 6.11.6.4.1.38g.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 3 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 700 bits                     |
|               | TFCl code word                       | 32 bits                      |
|               | Puncturing limit                     | 0.56                         |

6.11.6.4.1.38h Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38h.1 Uplink

6.11.6.4.1.38h.1.1 Transport channel parameters

6.11.6.4.1.38h.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.1.1.1.

6.11.6.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.11.6.4.1.23d.1.1.1.

6.11.6.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.38h.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## 6.11.6.4.1.38h.1.2 Physical channel parameters

|             |                                      |                                                             |
|-------------|--------------------------------------|-------------------------------------------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                                                  |
|             | Codes and time slots                 | SF8 x 1 code x 1 time slot +<br>SF32 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 1 084 bits                                                  |
|             | TFCI code word                       | 32 bits                                                     |
|             | TPC                                  | 2 bits                                                      |
|             | Puncturing Limit                     | 0.68 (alt.0.60)                                             |

## 6.11.6.4.1.38h.2 Downlink

## 6.11.6.4.1.38h.2.1 Transport channel parameters

## 6.11.6.4.1.38h.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

## 6.11.6.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.11.6.4.1.23d.2.1.1.

## 6.11.6.4.1.38h.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.38h.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF1,TF0,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## 6.11.6.4.1.38h.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 4 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 944                          |
|               | TFCI code word                       | 32 bits                      |
|               | Puncturing limit                     | 0.60                         |

## 6.11.6.4.1.38i Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.38i.1 Uplink

## 6.11.6.4.1.38i.1.1 Transport channel parameters

## 6.11.6.4.1.38i.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.1.1.1.

## 6.11.6.4.1.38i.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.11.6.4.1.26.1.1.1.

## 6.11.6.4.1.38i.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

## 6.11.6.4.1.38i.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),<br>(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),<br>(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),<br>(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## 6.11.6.4.1.38i.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 1 936 bits                 |
|             | TFCI code word                       | 32 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.68 (alt.0.60)            |

## 6.11.6.4.1.38i.2 Downlink

## 6.11.6.4.1.38i.2.1 Transport channel parameters

## 6.11.6.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

## 6.11.6.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.11.6.4.1.25.2.1.1.

## 6.11.6.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.38i.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),<br>(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0) |



|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),<br>(TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),<br>(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),<br>(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1),<br>(TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),<br>(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

#### 6.11.6.4.1.38i.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF32 x 7 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 900 bits                   |
|               | TFCI code word                       | 32 bits                      |
|               | Puncturing limit                     | 0.68                         |

6.11.6.4.1.38j Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.38j.1 Uplink

See clause 6.11.6.4.1.38i.1

6.11.6.4.1.38j.2 Downlink

6.11.6.4.1.38j.2.1 Transport channel parameters

6.11.6.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

6.11.6.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.11.6.4.1.27.2.1.1.

6.11.6.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.38j.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),<br>(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),<br>(TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),<br>(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1), (TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1), (TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1), (TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1), (TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

#### 6.11.6.4.1.38j.2.2 Physical channel parameters

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                     |
|               | Codes and time slots                 | SF32 x 6 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 3 280 bits                    |
|               | TFCI code word                       | 32 bits                       |
|               | Puncturing limit                     | 0.64                          |

6.11.6.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

#### 6.11.6.4.1.39.1 Uplink

See clause 6.11.6.4.1.38.1.

#### 6.11.6.4.1.39.2 Downlink

##### 6.11.6.4.1.39.2.1 Transport channel parameters

6.11.6.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.11.6.4.1.25.2.1.1.

6.11.6.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.39.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

#### 6.11.6.4.1.39.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 8 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 936 bits                   |
|               | TFCI code word                       | 16 bits                      |

|  |                  |      |
|--|------------------|------|
|  | Puncturing limit | 0.68 |
|--|------------------|------|

6.11.6.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.6.4.1.40.1 Uplink

6.11.6.4.1.40.1.1 Transport channel parameters

6.11.6.4.1.40.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.40.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.11.6.4.1.26.1.1.1.

6.11.6.4.1.40.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.40.1.1.4 TFCS

6.11.6.4.1.40.1.1.4.1 TFCS (one CCTrCH case)

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

6.11.6.4.1.40.1.1.4.2 TFCS (two CCTrCH case)

6.11.6.4.1.40.1.1.4.2.1 TFCS (conversational + SRB)

|           |                                                                                                                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                                                                        |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                       |

6.11.6.4.1.40.1.1.4.2.2 TFCS (Interactive or background)

|           |                                                                                                                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 5                                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                            |

6.11.6.4.1.40.1.2 Physical channel parameters

6.11.6.4.1.40.1.2.1 Physical channel (one CCTrCH case)

|             |                      |                            |
|-------------|----------------------|----------------------------|
| DPCH Uplink | Midamble             | 1024 chips                 |
|             | Codes and time slots | SF4 x 1 code x 1 time slot |

|  |                                      |                  |
|--|--------------------------------------|------------------|
|  | Max. Number of data bits/radio frame | 1 808 bits       |
|  | TFCl code word                       | 16 bit           |
|  | TPC                                  | 2 bits           |
|  | Puncturing Limit                     | 0.64 (alt. 0.56) |

## 6.11.6.4.1.40.1.2.2 Physical channel (two CCTrCH case)

## 6.11.6.4.1.40.1.2.2.1 Physical channel (conversational + SRB)

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                    |
|             | TFCl code word                       | 16 bits                     |
|             | TPC                                  | 2 bit                       |
|             | Puncturing Limit                     | 0.68                        |

## 6.11.6.4.1.40.1.2.2.2 Physical channel (Interactive or background)

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                 |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 1 808 bits                 |
|             | TFCl code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.84 (alt. 0.72)           |

## 6.11.6.4.1.40.2 Downlink

## Transport channel parameters

## 6.11.6.4.1.40.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

## 6.11.6.4.1.40.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.11.6.4.1.25.2.1.1.

## 6.11.6.4.1.40.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.40.2.1.4 TFCS

## 6.11.6.4.1.40.2.1.4.1 TFCS (one CCTrCH case)

See Clause 6.11.6.4.1.39.2.1.4.

## 6.11.6.4.1.40.2.1.4.2 TFCS (two CCTrCH case)

## 6.11.6.4.1.40.2.1.4.2.1 TFCS (conversational + SRB)

|           |                                                                                                                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                                                                        |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                       |

## 6.11.6.4.1.40.2.1.4.2.2 TFCS (Interactive or background)

|           |                                                                                                                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 5                                                                                                                                                                                                             |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                            |

## 6.11.6.4.1.40.2.2 Physical channel parameters

## 6.11.6.4.1.40.2.2.1 Physical channel parameters (one CCTrCH)

See clause 6.11.6.4.1.39.2.2.

## 6.11.6.4.1.40.2.2.2 Physical channel parameters (two CCTrCHs)

## 6.11.6.4.1.40.2.2.2.1 Physical channel parameters (conversational + SRB)

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

## 6.11.6.4.1.40.2.2.2.2 Physical channel parameters (Interactive or background)

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 5 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 204 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

## 6.11.6.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.41.1 Uplink

See clause 6.11.6.4.1.40.1.

## 6.11.6.4.1.41.2 Downlink

## 6.11.6.4.1.41.2.1 Transport channel parameters

## 6.11.6.4.1.41.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

## 6.11.6.4.1.41.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.11.6.4.1.27.2.1.1.

## 6.11.6.4.1.41.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.41.2.1.4 TFCS

## 6.11.6.4.1.41.2.1.4.1 TFCS (one CCTrCH case)

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |

NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

#### 6.11.6.4.1.41.2.1.4.2 TFCS (two CCTrCH case)

##### 6.11.6.4.1.41.2.1.4.2.1 TFCS (conversational + SRB)

|                                                                                                                          |                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 6                                                                                                                                                                                                                                          |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                            |

##### 6.11.6.4.1.41.2.1.4.2.2 TFCS (Interactive or background)

|                                                                                                                          |                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 5                                                                                                                                                                                                               |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                 |

#### 6.11.6.4.1.41.2.2 Physical channel parameters

##### 6.11.6.4.1.41.2.2.1 Physical channel parameters (one CCTrCH)

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                   |
|               | Codes and time slots                 | SF32 x 5codes x 2time slots |
|               | Max. Number of data bits/radio frame | 2 744 bits                  |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.52                        |

##### 6.11.6.4.1.41.2.2.2 Physical channel parameters (two CCTrCHs)

##### 6.11.6.4.1.41.2.2.2.1 Physical channel parameters (conversational + SRB)

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.64                         |

##### 6.11.6.4.1.41.2.2.2.2 Physical channel parameters (Interactive or background)

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF32 x 8 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 2 192 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0,48                         |

6.11.6.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.11.6.4.1.42.1 Uplink

##### 6.11.6.4.1.42.1.1 Transport channel parameters

##### 6.11.6.4.1.42.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

##### 6.11.6.4.1.42.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.11.6.4.1.26.1.1.1.

#### 6.11.6.4.1.42.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.42.1.1.4 TFCS

See clause 6.11.6.4.1.40.1.1.4.1.

#### 6.11.6.4.1.42.1.2 Physical channel parameters

See clause 6.11.6.4.1.40.1.2.1.

#### 6.11.6.4.1.42.2 Downlink

##### 6.11.6.4.1.42.2.1 Transport channel parameters

##### 6.11.6.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

##### 6.11.6.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.11.6.4.1.31.2.1.1.

##### 6.11.6.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

##### 6.11.6.4.1.42.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30 (alt. 42)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 256 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)<br>(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),<br>(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)<br>(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),<br>(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1)) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

#### 6.11.6.4.1.42.2.2 Physical channel parameters

|               |                                      |                                                                 |
|---------------|--------------------------------------|-----------------------------------------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                                                       |
|               | Codes and time slots                 | SF32 x 8 codes x 2 time slots +<br>SF32 x 4 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 5 504 bits (alt. 5 488)                                         |

|  |                  |                   |
|--|------------------|-------------------|
|  | TFCI code word   | 16 bits (alt. 32) |
|  | Puncturing limit | 0.60              |

6.11.6.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.43.1 Uplink

See clause 6.11.6.4.1.40.1.

6.11.6.4.1.43.2 Downlink

6.11.6.4.1.43.2.1 Transport channel parameters

6.11.6.4.1.43.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

See clause 6.11.6.4.1.32.2.1.1.

6.11.6.4.1.43.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.43.2.1.4 TFCS

6.11.6.4.1.43.2.1.4.1 TFCS (one CCTrCH case)

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 36 (alt. 54)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS      | <p>(RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=</p> <p>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0), (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0), (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1), (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1), (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1))</p> |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

6.11.6.4.1.43.2.1.4.2 TFCS (two CCTrCH case)



## 6.11.6.4.1.43.2.1.4.2.1 TFCS (conversational + SRB)

|           |                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6                                                                                                                                                                                                                                         |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                        |

## 6.11.6.4.1.43.2.1.4.2.2 TFCS (Interactive or background)

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 6 (alt. 9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0)<br>(alt. (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0),<br>(TF0, TF0, TF0, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF0, TF0, TF0, TF8, TF0)) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                          |

## 6.11.6.4.1.43.2.2 Physical channel parameters

## 6.11.6.4.1.43.2.2.1 Physical channel parameters (one CCTrCH)

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                     |
|               | Codes and time slots                 | SF32 x 8 codes x 3 time slots |
|               | Max. Number of data bits/radio frame | 6 592 bits                    |
|               | TFCI code word                       | 32 bits                       |
|               | Puncturing limit                     | 0.48                          |

## 6.11.6.4.1.43.2.2.2 Physical channel parameters (two CCTrCHs)

## 6.11.6.4.1.43.2.2.2.1 Physical channel parameters (conversational + SRB)

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.60                         |

## 6.11.6.4.1.43.2.2.2.2 Physical channel parameters (Interactive or background)

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                     |
|               | Codes and time slots                 | SF32 x 8 codes x 3 time slots |
|               | Max. Number of data bits/radio frame | 6 608 bits                    |
|               | TFCI code word                       | 16 bits                       |
|               | Puncturing limit                     | 0,52                          |

6.11.6.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2 048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.44.1 Uplink

## 6.11.6.4.1.44.1.1 Transport channel parameters

## 6.11.6.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

## 6.11.6.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.11.6.4.1.28.1.1.1.

## 6.11.6.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

## 6.11.6.4.1.44.1.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## 6.11.6.4.1.44.1.2 Physical channel parameters

|             |                                      |                                                 |
|-------------|--------------------------------------|-------------------------------------------------|
| DPCH Uplink | Midamble                             | 512 chips                                       |
|             | Codes and time slots                 | {SF16 x 1 code + SF4 x 1 code}<br>x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 616 bits                                      |
|             | TFCI code word                       | 16 bits                                         |
|             | TPC                                  | 2 bits                                          |
|             | Puncturing Limit                     | 0.52 (alt. 0.44)                                |

## 6.11.6.4.1.44.2 Downlink

## 6.11.6.4.1.44.2.1 Transport channel parameters

## 6.11.6.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

## 6.11.6.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2 048 kbps / PS RAB

See clause 6.11.6.4.1.35.2.1.1.

## 6.11.6.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.44.2.1.4 TFCS

[illegible]

## 6.11.6.4.1.44.2.2 Physical channel parameters

|               |                                      |                                 |
|---------------|--------------------------------------|---------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                       |
|               | Codes and time slots                 | SF32 x 12 codes x 11 time slots |
|               | Max. Number of data bits/radio frame | 36 400 bits                     |
|               | TFCI code word                       | 32 bits                         |
|               | Puncturing limit                     | 0.52                            |

6.11.6.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.45.1 Uplink

6.11.6.4.1.45.1.1 Transport channel parameters

6.11.6.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

See clause 6.11.6.4.1.17.1.1.1.

6.11.6.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.45.1.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## 6.11.6.4.1.45.1.2 Physical channel parameters

|             |                                      |                                                         |
|-------------|--------------------------------------|---------------------------------------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                                              |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot + SF8 x 1 codex 1 time slot |
|             | Max. Number of data bits/radio frame | 1 392 bits                                              |
|             | TFCI code word                       | 16 bits                                                 |
|             | TPC                                  | 2 bits                                                  |
|             | Puncturing Limit                     | 0.56                                                    |

6.11.6.4.1.45.2 Downlink

6.11.6.4.1.45.2.1 Transport channel parameters

6.11.6.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

See clause 6.11.6.4.1.17.2.1.1.

## 6.11.6.4.1.45.2.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.45.2.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## 6.11.6.4.1.45.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 6 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 448 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

6.11.6.4.1.46 Void

6.11.6.4.1.47 Void

6.11.6.4.1.48 Void

6.11.6.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.49.1 Uplink

6.11.6.4.1.49.1.1 Transport channel parameters

6.11.6.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

6.11.6.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

## 6.11.6.4.1.49.1.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 12                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                  |

## 6.11.6.4.1.49.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCl code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.72                       |

#### 6.11.6.4.1.49.2 Downlink

##### 6.11.6.4.1.49.2.1 Transport channel parameters

###### 6.11.6.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

###### 6.11.6.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

###### 6.11.6.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

##### 6.11.6.4.1.49.2.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 12                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS                                                                                                                     | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### 6.11.6.4.1.49.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF32 x 8 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 2 192 bits                   |
|               | TFCl code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.76                         |

#### 6.11.6.4.1.49a Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.49a.1 Uplink

###### 6.11.6.4.1.49a.1.1 Transport channel parameters

###### 6.11.6.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.1.1.1.

###### 6.11.6.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

###### 6.11.6.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

##### 6.11.6.4.1.49a.1.1.4 TFCS

|           |    |
|-----------|----|
| TFCS size | 24 |
|-----------|----|

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS  | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
| NOTE: | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

#### 6.11.6.4.1.49a.1.2 Physical channel parameters

|              |                                      |                            |
|--------------|--------------------------------------|----------------------------|
| DPCCH Uplink | Midamble                             | 512 chips                  |
|              | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|              | Max. Number of data bits/radio frame | 2 064 bits                 |
|              | TFCI code word                       | 16 bit                     |
|              | TPC                                  | 2 bits                     |
|              | Puncturing Limit                     | 0.72                       |

#### 6.11.6.4.1.49a.2 Downlink

#### 6.11.6.4.1.49a.2.1 Transport channel parameters

##### 6.11.6.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.11.6.4.1.4a.2.1.1.

##### 6.11.6.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

##### 6.11.6.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.49a.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),<br>(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),<br>(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),<br>(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),<br>(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

#### 6.11.6.4.1.49a.2.2 Physical channel parameters

|                |                                      |                              |
|----------------|--------------------------------------|------------------------------|
| DPCCH Downlink | Midamble                             | 512 chips                    |
|                | Codes and time slots                 | SF32 x 7 codes x 1 time slot |
|                | Max. Number of data bits/radio frame | 1 916 bits                   |
|                | TFCI code word                       | 16 bits                      |
|                | Puncturing limit                     | 0.68                         |

#### 6.11.6.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.11.6.4.1.50.1 Uplink

## 6.11.6.4.1.50.1.1 Transport channel parameters

## 6.11.6.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

## 6.11.6.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

## 6.11.6.4.1.50.1.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 8                                                                                                                                                                             |
| TFCS                                                                                                                     | (64 kbps RAB, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0)<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                               |

## 6.11.6.4.1.50.1.2 Physical channel parameters

|             |                                      |                                                            |
|-------------|--------------------------------------|------------------------------------------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                                                 |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot +<br>SF8 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 784 bits                                                 |
|             | TFCI code word                       | 16 bits                                                    |
|             | TPC                                  | 2 bits                                                     |
|             | Puncturing Limit                     | 0.60                                                       |

## 6.11.6.4.1.50.2 Downlink

## 6.11.6.4.1.50.2.1 Transport channel parameters

## 6.11.6.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

## 6.11.6.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.50.2.1.3 TFCS

|                                                                                                                          |                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 8                                                                                                                                                                             |
| TFCS                                                                                                                     | (64 kbps RAB, 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0)<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                               |

## 6.11.6.4.1.50.2.2 Physical channel parameters

|               |                                      |                               |
|---------------|--------------------------------------|-------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                    |
|               | Codes and time slots                 | SF32 x 6 codes x 2 time slots |
|               | Max. Number of data bits/radio frame | 2 912 bits                    |
|               | TFCI code word                       | 16 bits                       |
|               | Puncturing limit                     | 0.64                          |

## 6.11.6.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.51.1 Uplink

## 6.11.6.4.1.51.1.1 Transport channel parameters

## 6.11.6.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB



See clause 6.11.6.4.1.13.1.1.1.

6.11.6.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.11.6.4.1.26.1.1.1.

6.11.6.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.51.1.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 20                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS                                                                                                                     | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                            |

6.11.6.4.1.51.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.44 (alt. 0.40)           |

6.11.6.4.1.51.2 Downlink

6.11.6.4.1.51.2.1 Transport channel parameters

6.11.6.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

6.11.6.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.11.6.4.1.25.2.1.1.

6.11.6.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.51.2.1.4 TFCS

|                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                                | 20                                                                                                                                                                                                                                                                                                                                                                                                         |
| TFCS                                                                                                                     | (Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                            |

6.11.6.4.1.51.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF32 x 8 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 2 192 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.48                         |

6.11.6.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.51a.1 Uplink

6.11.6.4.1.51a.1.1 Transport channel parameters

6.11.6.4.1.51a.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

6.11.6.4.1.51a.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.11.6.4.1.23a.1.1.1.

6.11.6.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.51a.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 8 (alt. 12)                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TFCS                                                                                                                    | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)<br>(alt.<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                   |

6.11.6.4.1.51a.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.76                       |

6.11.6.4.1.51a.2 Downlink

6.11.6.4.1.51a.2.1 Transport channel parameters

6.11.6.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / PS RAB

See clause 6.11.6.4.1.13.2.1.1.

6.11.6.4.1.51a.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.11.6.4.1.23.2.1.1.

6.11.6.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.1.51a.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 8                                                                                                                                                                                                |
| TFCS                                                                                                                    | (64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                  |

## 6.11.6.4.1.51a.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF32 x 6 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 640 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.60                         |

6.11.6.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.51b.1 Uplink

6.11.6.4.1.51b.1.1 Transport channel parameters

6.11.6.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

6.11.6.4.1.51b.1.1.2 Transport channel parameters for Interactive or Background / UL:16 kbps / PS RAB

See clause 6.11.6.4.1.23b.1.1.1.

6.11.6.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.51b.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 12                                                                                                                                                                                                                                                                    |
| TFCS                                                                                                                    | (64 kbps Conversational RAB, 16 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                       |

## 6.11.6.4.1.51b.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bit                     |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.68                       |

6.11.6.4.1.51b.2 Downlink

See clause 6.11.6.4.1.51.2.

6.11.6.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.52.1 Uplink

See clause 6.11.6.4.1.51.1.

6.11.6.4.1.52.2 Downlink

6.11.6.4.1.52.2.1 Transport channel parameters

6.11.6.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

6.11.6.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.11.6.4.1.27.2.1.1.

#### 6.11.6.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.52.2.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS      | (Conv. 64 kbps RAB, I/B 128 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                          |

#### 6.11.6.4.1.52.2.2 Physical channel parameters

|               |                                      |                                                                    |
|---------------|--------------------------------------|--------------------------------------------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                                                         |
|               | Codes and time slots                 | {SF32 x 8 codes x 1 time slot} +<br>{SF32 x 5 codes x 1 time slot} |
|               | Max. Number of data bits/radio frame | 3 156 bits                                                         |
|               | TFCl code word                       | 16 bits                                                            |
|               | Puncturing limit                     | 0.44                                                               |

#### 6.11.6.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

#### 6.11.6.4.1.53.1 Uplink

#### 6.11.6.4.1.53.1.1 Transport channel parameters

#### 6.11.6.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

#### 6.11.6.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.11.6.4.1.28.1.1.1.

#### 6.11.6.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.53.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS      | (Conv. 64 kbps RAB, I/B 128 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1) |
| NOTE:     | In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                                                          |

#### 6.11.6.4.1.53.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                 |
|             | Codes and time slots                 | SF4 x 1 code x 2 timeslots |
|             | Max. Number of data bits/radio frame | 3 760 bits                 |
|             | TFCl code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.52 (alt. 0.48)           |

#### 6.11.6.4.1.53.2 Downlink

See clause 6.11.6.4.1.52.2.

- 6.11.6.4.1.54 Void
- 6.11.6.4.1.55 Void
- 6.11.6.4.1.56 Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.11.6.4.1.56.1 Uplink
- 6.11.6.4.1.56.1.1 Transport channel parameters
- 6.11.6.4.1.56.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB + UL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                   | RAB                            | RAB           |
|--------------|-----------------------------------------------------|--------------------------------|---------------|
| RLC          | Logical channel type                                | DTCH                           | DTCH          |
|              | RLC mode                                            | AM                             | AM            |
|              | Payload sizes, bit                                  | 320 (alt. 128)                 | 320 (alt.128) |
|              | Max data rate, bps                                  | 8 000                          | 8 000         |
|              | AMD PDU header, bit                                 | 16                             | 16            |
| MAC          | MAC header, bit                                     | 4                              | 4             |
|              | MAC multiplexing                                    | 2 logical channel multiplexing |               |
| Layer 1      | TrCH type                                           | DCH                            |               |
|              | TB sizes, bit                                       | 340 (alt. 148)                 |               |
|              | TFS                                                 | TF0, bits                      |               |
|              |                                                     | 0x340 (alt. 0x148)             |               |
|              |                                                     | 1x340 (alt. 1x148)             |               |
|              |                                                     | N/A (alt. 5x148)               |               |
|              | TTI, ms                                             | 40 (alt. 80)                   |               |
|              | Coding type                                         | TC                             |               |
|              | CRC, bit                                            | 16                             |               |
|              | Max number of bits/TTI after channel coding         | 1 080 (alt. 2 472)             |               |
|              | Max number of bits/radio frame before rate matching | 270 (alt. 309)                 |               |
|              | RM attribute                                        | 135 to 175                     |               |

- 6.11.6.4.1.56.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

- 6.11.6.4.1.56.1.1.3 TFCS

|                                                                                                                         |                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 4 (alt. 6)                                                                                                                                                |
| TFCS                                                                                                                    | (8 kbps RAB + 8 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1)<br>(alt. (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1)) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                           |

- 6.11.6.4.1.56.1.2 Physical channel parameters

|                                                                                                              |                                      |                             |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|
| DPCH Uplink                                                                                                  | Midamble                             | 1024 chips                  |
|                                                                                                              | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|                                                                                                              | Max. Number of data bits/radio frame | 226 bits                    |
|                                                                                                              | TFCI code word                       | 16 bits                     |
|                                                                                                              | TPC                                  | 2 bits                      |
|                                                                                                              | Puncturing Limit                     | 0.52 (alt. 0.48)            |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits (alt. 16 bits). |                                      |                             |

## 6.11.6.4.1.56.2 Downlink

## 6.11.6.4.1.56.2.1 Transport channel parameters

## 6.11.6.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                   | RAB                            | RAB   |
|--------------|-----------------------------------------------------|--------------------------------|-------|
| RLC          | Logical channel type                                | DTCH                           | DTCH  |
|              | RLC mode                                            | AM                             | AM    |
|              | Payload sizes, bit                                  | 320                            | 320   |
|              | Max data rate, bps                                  | 8 000                          | 8 000 |
|              | AMD PDU header, bit                                 | 16                             | 16    |
| MAC          | MAC header, bit                                     | 4                              | 4     |
|              | MAC multiplexing                                    | 2 logical channel multiplexing |       |
| Layer 1      | TrCH type                                           | DCH                            |       |
|              | TB sizes, bit                                       | 340                            |       |
|              | TFS                                                 | 0x340                          |       |
|              |                                                     | 1x340                          |       |
|              | TTI, ms                                             | 40                             |       |
|              | Coding type                                         | TC                             |       |
|              | CRC, bit                                            | 16                             |       |
|              | Max number of bits/TTI after channel coding         | 1 080                          |       |
|              | Max number of bits/radio frame before rate matching | 270                            |       |
|              | RM attribute                                        | 135 to 175                     |       |

## 6.11.6.4.1.56.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.1.56.2.1.3 TFCS

|                                                                                                                         |                                                                                |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 4                                                                              |
| TFCS                                                                                                                    | (8 kbps RAB + 8 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                |

## 6.11.6.4.1.56.2.2 Physical channel parameters

|                                                                                               |                                      |                              |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|
| DPCH Downlink                                                                                 | Midamble                             | 1024 chips                   |
|                                                                                               | Codes and time slots                 | SF32 x 1 codes x 1 time slot |
|                                                                                               | Max. Number of data bits/radio frame | 228 bits                     |
|                                                                                               | TFCI code word                       | 16 bits                      |
|                                                                                               | Puncturing limit                     | 0.56                         |
| NOTE: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits. |                                      |                              |

## 6.11.6.4.1.57 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.1.57.1 Uplink

## 6.11.6.4.1.57.1.1 Transport channel parameters

## 6.11.6.4.1.57.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

See clause 6.11.6.4.1.38d.1.1.2.

## 6.11.6.4.1.57.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

## 6.11.6.4.1.57.1.1.3 TFCS

|                                                                                                                         |                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 10                                                                                                                                                    |
| TFCS                                                                                                                    | (64 kbps RAB + 64 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0),<br>(TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                       |

#### 6.11.6.4.1.57.1.2 Physical channel parameters

|             |                                      |                            |
|-------------|--------------------------------------|----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                  |
|             | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 2 064 bits                 |
|             | TFCI code word                       | 16 bits                    |
|             | TPC                                  | 2 bits                     |
|             | Puncturing Limit                     | 0.88 (alt. 0.76)           |

#### 6.11.6.4.1.57.2 Downlink

##### 6.11.6.4.1.57.2.1 Transport channel parameters

##### 6.11.6.4.1.57.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

| Higher layer | RAB/Signalling RB                                   | RAB                            | RAB    |
|--------------|-----------------------------------------------------|--------------------------------|--------|
| RLC          | Logical channel type                                | DTCH                           | DTCH   |
|              | RLC mode                                            | AM                             | AM     |
|              | Payload sizes, bit                                  | 320                            | 320    |
|              | Max data rate, bps                                  | 64 000                         | 64 000 |
|              | AMD PDU header, bit                                 | 16                             | 16     |
| MAC          | MAC header, bit                                     | 4                              | 4      |
|              | MAC multiplexing                                    | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                           | DCH                            |        |
|              | TB sizes, bit                                       | 340                            |        |
|              | TFS                                                 | TF0, bits                      | 0x340  |
|              |                                                     | TF1, bits                      | 1x340  |
|              |                                                     | TF2, bits                      | 2x340  |
|              |                                                     | TF3, bits                      | 3x340  |
|              |                                                     | TF4, bits                      | 4x340  |
|              | TTI, ms                                             | 20                             |        |
|              | Coding type                                         | TC                             |        |
|              | CRC, bit                                            | 16                             |        |
|              | Max number of bits/TTI after channel coding         | 4 284                          |        |
|              | Max number of bits/radio frame before rate matching | 2 142                          |        |
|              | RM attribute                                        | 130 to 170                     |        |

##### 6.11.6.4.1.57.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

##### 6.11.6.4.1.57.2.1.3 TFCS

|                                                                                                                         |                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 10                                                                                                                                                    |
| TFCS                                                                                                                    | (64 kbps RAB + 64 kbps RAB, DCCH)=<br>(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0),<br>(TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                       |

#### 6.11.6.4.1.57.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF32 x 5 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 364 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.56                         |

6.11.6.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.1.58.1 Uplink

6.11.6.4.1.58.1.1 Transport channel parameters

6.11.6.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

|              |                                                     |            |
|--------------|-----------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                   | RAB        |
| RLC          | Logical channel type                                | DTCH       |
|              | RLC mode                                            | AM         |
|              | Payload sizes, bit                                  | 320        |
|              | Max data rate, bps                                  | 16 000     |
|              | AMD PDU header, bit                                 | 16         |
| MAC          | MAC header, bit                                     | 0          |
|              | MAC multiplexing                                    | N/A        |
| Layer 1      | TrCH type                                           | DCH        |
|              | TB sizes, bit                                       | 336        |
|              | TFS                                                 | TF0, bits  |
|              |                                                     | TF1, bits  |
|              | TTI, ms                                             | 20         |
|              | Coding type                                         | TC         |
|              | CRC, bit                                            | 16         |
|              | Max number of bits/TTI after channel coding         | 1 068      |
|              | Max number of bits/radio frame before rate matching | 534        |
|              | RM attribute                                        | 135 to 175 |

6.11.6.4.1.58.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

See clause 6.11.6.4.1.23a.1.1.1.

6.11.6.4.1.58.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.1.58.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 8 (alt. 12)                                                                                                                                                                                                                                                                                                                                                      |
| TFCS      | (16 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0),<br>(TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1)<br>(alt.<br>(TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF0,TF2,TF0), (TF1,TF2,TF0),<br>(TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF0,TF2,TF1), (TF1,TF2,TF1)) |
| NOTE:     | In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.                                                                                                                                                                                                                                                |

6.11.6.4.1.58.1.2 Physical channel parameters

|             |                                      |                                                             |
|-------------|--------------------------------------|-------------------------------------------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                                                  |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot +<br>SF32 x 1code x 1 time slot |
|             | Max. Number of data bits/radio frame | 696 bits                                                    |
|             | TFCI code word                       | 16 bits                                                     |
|             | TPC                                  | 2 bits                                                      |
|             | Puncturing Limit                     | 0.72 (alt. 0.68)                                            |

6.11.6.4.1.58.2 Downlink

6.11.6.4.1.58.2.1 Transport channel parameters

6.11.6.4.1.58.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB



|              |                                                     |            |
|--------------|-----------------------------------------------------|------------|
| Higher layer | RAB/Signalling RB                                   | RAB        |
| RLC          | Logical channel type                                | DTCH       |
|              | RLC mode                                            | AM         |
|              | Payload sizes, bit                                  | 640        |
|              | Max data rate, bps                                  | 64 000     |
|              | AM PDU header, bit                                  | 16         |
| MAC          | MAC header, bit                                     | 0          |
|              | MAC multiplexing                                    | N/A        |
| Layer 1      | TrCH type                                           | DCH        |
|              | TB sizes, bit                                       | 656        |
|              | TFS                                                 | TF0, bits  |
|              |                                                     | TF1, bits  |
|              |                                                     | TF2, bits  |
|              |                                                     | TF3, bits  |
|              | TTI, ms                                             | 40         |
|              | Coding type                                         | TC         |
|              | CRC, bit                                            | 16         |
|              | Max number of bits/TTI after channel coding         | 8 076      |
|              | Max number of bits/radio frame before rate matching | 2 019      |
|              | RM attribute                                        | 125 to 165 |

#### 6.11.6.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.11.6.4.1.23.2.1.1.

#### 6.11.6.4.1.58.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.58.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 16                                                                                                                                                                                                                                                                                          |
| TFCS                                                                                                                    | (64 kbps RAB, 8 kbps RAB, DCCH)=<br>(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0),<br>(TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0),<br>(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1),<br>(TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                             |

#### 6.11.6.4.1.58.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 512 chips                    |
|               | Codes and time slots                 | SF32 x 6 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 1 640 bits                   |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.64                         |

#### 6.11.6.4.1.59 Reserved for future use

#### 6.11.6.4.1.60 Reserved for future use

#### 6.11.6.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.1.61.1 Uplink

##### 6.11.6.4.1.61.1.1 Transport channel parameters

##### 6.11.6.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

|              |                      |      |
|--------------|----------------------|------|
| Higher layer | RAB/Signalling RB    | RAB  |
| RLC          | Logical channel type | DTCH |
|              | RLC mode             | UM   |
|              | Payload sizes, bit   | 320  |

|                                                                                                                                                                                                    |                                                     |                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------|
|                                                                                                                                                                                                    | Max data rate, bps                                  | 8 000                  |
|                                                                                                                                                                                                    | UMD PDU header, bit                                 | 8                      |
| MAC                                                                                                                                                                                                | MAC header, bit                                     | 0                      |
|                                                                                                                                                                                                    | MAC multiplexing                                    | N/A                    |
| Layer 1                                                                                                                                                                                            | TrCH type                                           | DCH                    |
|                                                                                                                                                                                                    | TB sizes, bit                                       | 328 (alt 0, 328)       |
|                                                                                                                                                                                                    | TFS                                                 | TF0, bits              |
|                                                                                                                                                                                                    |                                                     | 0x328 (alt 1x0) (note) |
|                                                                                                                                                                                                    |                                                     | TF1, bits              |
|                                                                                                                                                                                                    |                                                     | 1x328                  |
|                                                                                                                                                                                                    | TTI, ms                                             | 40                     |
|                                                                                                                                                                                                    | Coding type                                         | TC                     |
|                                                                                                                                                                                                    | CRC, bit                                            | 16                     |
|                                                                                                                                                                                                    | Max number of bits/TTI after channel coding         | 1 044                  |
|                                                                                                                                                                                                    | Max number of bits/radio frame before rate matching | 261                    |
|                                                                                                                                                                                                    | RM attribute                                        | 135 to 175             |
| NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |                        |

#### 6.11.6.4.1.61.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.11.6.4.1.23a.1.1.1.

#### 6.11.6.4.1.61.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.1.61.1.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 8 (alt. 12)                                                                                                                                                                                                                                                                                                                                                                                                                      |
| TFCS                                                                                                                    | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)<br>(alt.<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0),<br>(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0),<br>(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1)) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### 6.11.6.4.1.61.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 1024 chips                  |
|             | Codes and time slots                 | SF16 x 1 code x 1 time slot |
|             | Max. Number of data bits/radio frame | 452 bits                    |
|             | TF0 code word                        | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.68 (alt. 0.64)            |

#### 6.11.6.4.1.61.2 Downlink

#### 6.11.6.4.1.61.2.1 Transport channel parameters

#### 6.11.6.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

|              |                      |                        |
|--------------|----------------------|------------------------|
| Higher layer | RAB/Signalling RB    | RAB                    |
| RLC          | Logical channel type | DTCH                   |
|              | RLC mode             | UM                     |
|              | Payload sizes, bit   | 320                    |
|              | Max data rate, bps   | 8 000                  |
|              | AMD PDU header, bit  | 8                      |
| MAC          | MAC header, bit      | 0                      |
|              | MAC multiplexing     | N/A                    |
| Layer 1      | TrCH type            | DCH                    |
|              | TB sizes, bit        | 328 (alt 0, 328)       |
|              | TFS                  | TF0, bits              |
|              |                      | 0x328 (alt 1x0) (note) |

|                                                                                                                                                                                                    |                                                     |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|
|                                                                                                                                                                                                    | TF1, bits                                           | 1x328      |
|                                                                                                                                                                                                    | TTI, ms                                             | 40         |
|                                                                                                                                                                                                    | Coding type                                         | TC         |
|                                                                                                                                                                                                    | CRC, bit                                            | 16         |
|                                                                                                                                                                                                    | Max number of bits/TTI after channel coding         | 1 044      |
|                                                                                                                                                                                                    | Max number of bits/radio frame before rate matching | 261        |
|                                                                                                                                                                                                    | RM attribute                                        | 135 to 175 |
| NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in 3GPP TS 25.222 [29]). |                                                     |            |

#### 6.11.6.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.11.6.4.1.23.2.1.1.

#### 6.11.6.4.1.61.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.1.61.2.1.4 TFCS

|                                                                                                                         |                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size                                                                                                               | 8                                                                                                                                                                                               |
| TFCS                                                                                                                    | (8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=<br>(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),<br>(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1) |
| NOTE: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise. |                                                                                                                                                                                                 |

#### 6.11.6.4.1.61.2.2 Physical channel parameters

|               |                                      |                              |
|---------------|--------------------------------------|------------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                   |
|               | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 472 bits                     |
|               | TFCI code word                       | 16 bits                      |
|               | Puncturing limit                     | 0.68                         |

#### 6.11.6.4.2 Combinations on PDSCH, SCCPCH, PUSCH and PRACH

6.11.6.4.2.1 Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

#### 6.11.6.4.2.1.1 Uplink

#### 6.11.6.4.2.1.1.1 Transport channel parameters

6.11.6.4.2.1.1.1.1 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

|              |                         |                |                     |
|--------------|-------------------------|----------------|---------------------|
| Higher layer | RAB/Signalling RB       | RAB            | SRB#5               |
| RLC          | Logical channel type    | DTCH           | SHCCH               |
|              | RLC mode                | AM             | TM                  |
|              | Payload sizes, bit      | 320 (alt. 128) | 168                 |
|              | Max data rate, bps      | 64 000         | 16 800              |
|              | AMD/TrD PDU header, bit | 16             | 0                   |
| MAC          | MAC header, bit         | 1              | 1                   |
|              | MAC multiplexing        | N/A            | N/A                 |
| Layer 1      | TrCH type               | USCH           | USCH                |
|              | TB sizes, bit           | 337 (alt. 145) | 169                 |
|              | TFS                     | TF0, bits      | 0x337 (alt. 0x145)  |
|              |                         | TF1, bits      | 1x337 (alt. 1x145)  |
|              |                         | TF2, bits      | 2x337 (alt. 3x145)  |
|              |                         | TF3, bits      | 3x337 (alt. 7x145)  |
|              |                         | TF4, bits      | 4x337 (alt. 10x145) |
|              | TTI, ms                 | 20             | 10                  |
|              | Coding type             | TC             | CC 1/2              |
|              | CRC, bit                | 16             | 16                  |

|  |                                                     |                    |            |
|--|-----------------------------------------------------|--------------------|------------|
|  | Max number of bits/TTI after channel coding         | 4 248 (alt. 4 842) | 386        |
|  | Max number of bits/radio frame before rate matching | 2 124 (alt. 2 421) | 386        |
|  | RM attribute                                        | 135 to 175         | 230 to 250 |

#### 6.11.6.4.2.1.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

|              |                                                     |           |                                |       |                     |                    |
|--------------|-----------------------------------------------------|-----------|--------------------------------|-------|---------------------|--------------------|
| Higher layer | RAB/signalling RB                                   |           | SRB#1                          | SRB#2 | SRB#3               | SRB#4              |
|              | User of Radio Bearer                                |           | RRC                            | RRC   | NAS_DT<br>High prio | NAS_DT<br>Low prio |
| RLC          | Logical channel type                                |           | DCCH                           | DCCH  | DCCH                | DCCH               |
|              | RLC mode                                            |           | UM                             | AM    | AM                  | AM                 |
|              | Payload sizes, bit                                  |           | 136                            | 128   | 128                 | 128                |
|              | Max data rate, bps                                  |           | 3 400                          | 3 200 | 3 200               | 3 200              |
|              | AMD/UMD PDU header, bit                             |           | 8                              | 16    | 16                  | 16                 |
| MAC          | MAC header, bit                                     |           | 5                              | 5     | 5                   | 5                  |
|              | MAC multiplexing                                    |           | 4 logical channel multiplexing |       |                     |                    |
| Layer 1      | TrCH type                                           |           | USCH                           |       |                     |                    |
|              | TB sizes, bit                                       |           | 149                            |       |                     |                    |
|              | TFS                                                 | TF0, bits | 0x149                          |       |                     |                    |
|              |                                                     | TF1, bits | 1x149                          |       |                     |                    |
|              | TTI, ms                                             |           | 40                             |       |                     |                    |
|              | Coding type                                         |           | CC 1/3                         |       |                     |                    |
|              | CRC, bit                                            |           | 16                             |       |                     |                    |
|              | Max number of bits/TTI before rate matching         |           | 519                            |       |                     |                    |
|              | Max number of bits/radio frame before rate matching |           | 130                            |       |                     |                    |
|              | RM attribute                                        |           | 190 to 210                     |       |                     |                    |

#### 6.11.6.4.2.1.1.1.3 TFCS for USCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20                                                                                                                                                                                                                                                                                                                                                                                                  |
| TFCS      | (64 kbps RAB, SHCCH, SRBs for DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0, TF1, TF0),<br>(TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1),<br>(TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1) |

#### 6.11.6.4.2.1.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

##### 6.11.6.4.2.1.1.1.4.1 RACH transport channel configuration without DTCH

|              |                                                     |                                |              |              |                              |                             |              |
|--------------|-----------------------------------------------------|--------------------------------|--------------|--------------|------------------------------|-----------------------------|--------------|
| Higher layer | RAB/signalling RB<br>User of Radio Bearer           | SRB#0<br>RRC                   | SRB#1<br>RRC | SRB#2<br>RRC | SRB#3<br>NAS_DT<br>High prio | SRB#4<br>NAS_DT<br>Low prio | SRB#5<br>RRC |
| RLC          | Logical channel type                                | CCCH                           | DCCH         | DCCH         | DCCH                         | DCCH                        | SHCCH        |
|              | RLC mode                                            | TM                             | UM           | AM           | AM                           | AM                          | TM           |
|              | Payload sizes, bit                                  | 168                            | 136          | 128          | 128                          | 128                         | 168          |
|              | Max data rate, bps                                  | 16 800                         | 13 600       | 12 800       | 12 800                       | 12 800                      | 16 800       |
|              | AMD/UMD/TrD PDU header, bit                         | 0                              | 8            | 16           | 16                           | 16                          | 0            |
| MAC          | MAC header, bit                                     | 2                              | 26           | 26           | 26                           | 26                          | 2            |
|              | MAC multiplexing                                    | 6 logical channel multiplexing |              |              |                              |                             |              |
| Layer 1      | TrCH type                                           | RACH                           |              |              |                              |                             |              |
|              | TB sizes, bit                                       | 170                            |              |              |                              |                             |              |
|              | TFS                                                 | 1x170                          |              |              |                              |                             |              |
|              | TTI, ms                                             | 10                             |              |              |                              |                             |              |
|              | Coding type                                         | CC 1/2                         |              |              |                              |                             |              |
|              | CRC, bit                                            | 16                             |              |              |                              |                             |              |
|              | Max number of bits/TTI after channel coding         | 388                            |              |              |                              |                             |              |
|              | Max number of bits/radio frame before rate matching | 388                            |              |              |                              |                             |              |

## 6.11.6.4.2.1.1.4.2 RACH transport channel configuration with DTCH

|              |                                                     |                                   |        |        |        |                     |                    |        |
|--------------|-----------------------------------------------------|-----------------------------------|--------|--------|--------|---------------------|--------------------|--------|
| Higher layer | RAB/signalling RB                                   | RAB                               | SRB#0  | SRB#1  | SRB#2  | SRB#3               | SRB#4              | SRB#5  |
|              | User of Radio Bearer                                | Interactive/<br>Background<br>RAB | RRC    | RRC    | RRC    | NAS_DT<br>High prio | NAS_DT<br>Low prio | RRC    |
| RLC          | Logical channel type                                | DTCH                              | CCCH   | DCCH   | DCCH   | DCCH                | DCCH               | SHCCH  |
|              | RLC mode                                            | AM                                | TM     | UM     | AM     | AM                  | AM                 | TM     |
|              | Payload sizes, bit                                  | 128                               | 168    | 136    | 128    | 128                 | 128                | 168    |
|              | Max data rate, bps                                  | 12 800                            | 16 800 | 13 600 | 12 800 | 12 800              | 12 800             | 16 800 |
|              | AMD/UMD/TrD PDU header, bit                         | 16                                | 0      | 8      | 16     | 16                  | 16                 | 0      |
| MAC          | MAC header, bit                                     | 26                                | 2      | 26     | 26     | 26                  | 26                 | 2      |
|              | MAC multiplexing                                    | 7 logical channel multiplexing    |        |        |        |                     |                    |        |
| Layer 1      | TrCH type                                           | RACH                              |        |        |        |                     |                    |        |
|              | TB sizes, bit                                       | 170                               |        |        |        |                     |                    |        |
|              | TFS TF0, bits                                       | 1x170                             |        |        |        |                     |                    |        |
|              | TTI, ms                                             | 10                                |        |        |        |                     |                    |        |
|              | Coding type                                         | CC 1/2                            |        |        |        |                     |                    |        |
|              | CRC, bit                                            | 16                                |        |        |        |                     |                    |        |
|              | Max number of bits/TTI after channel coding         | 388                               |        |        |        |                     |                    |        |
|              | Max number of bits/radio frame before rate matching | 388                               |        |        |        |                     |                    |        |

## 6.11.6.4.2.1.1.2 Physical channel parameters

## 6.11.6.4.2.1.1.2.1 Physical channel parameters for PUSCH

|       |                                      |                            |
|-------|--------------------------------------|----------------------------|
| PUSCH | Midamble                             | 1024 chips                 |
|       | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|       | Max. Number of data bits/radio frame | 1 808 bits                 |
|       | TFCI code word                       | 16 bits                    |
|       | TPC                                  | 2 bits                     |
|       | Puncturing Limit                     | 0.60 (alt. 0.56)           |

## 6.11.6.4.2.1.1.2.2 Physical channel parameters for PRACH

|       |                                      |                                         |
|-------|--------------------------------------|-----------------------------------------|
| PRACH | Midamble                             | 1024 chips                              |
|       | Codes and time slots                 | SF16 (alt. SF32) x 1 code x 1 time slot |
|       | Max. Number of data bits/radio frame | 464 (alt. 232)                          |
|       | Puncturing Limit                     | 1 (alt. 0.56)                           |

## 6.11.6.4.2.1.2 Downlink

## 6.11.6.4.2.1.2.1 Transport channel parameters

## 6.11.6.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

|              |                         |         |        |
|--------------|-------------------------|---------|--------|
| Higher layer | RAB/Signalling RB       | RAB     | SRB#5  |
| RLC          | Logical channel type    | DTCH    | SHCCH  |
|              | RLC mode                | AM      | UM     |
|              | Payload sizes, bit      | 320     | 160    |
|              | Max data rate, bps      | 256 000 | 16 000 |
|              | AMD/UMD PDU header, bit | 16      | 8      |
| MAC          | MAC header, bit         | 1       | 1      |
|              | MAC multiplexing        | N/A     | N/A    |
| Layer 1      | TrCH type               | DSCH    | DSCH   |
|              | TB sizes, bit           | 337     | 169    |

|  |                                                               |           |                     |            |
|--|---------------------------------------------------------------|-----------|---------------------|------------|
|  | TFS                                                           | TF0, bits | 0x337               | 0x169      |
|  |                                                               | TF1, bits | 1x337               | 1x169      |
|  |                                                               | TF2, bits | 2x337               | N/A        |
|  |                                                               | TF3, bits | 4x337               | N/A        |
|  |                                                               | TF4, bits | 8x337               | N/A        |
|  |                                                               | TF5, bits | N/A (alt. 12x337)   | N/A        |
|  |                                                               | TF6, bits | N/A (alt. 16x337)   | N/A        |
|  | TTI, ms                                                       |           | 10 (alt. 20)        | 10         |
|  | Coding type                                                   |           | TC                  | CC 1/2     |
|  | CRC, bit                                                      |           | 16                  | 16         |
|  | Max number of bits/TTI after channel coding                   |           | 8 484 (alt. 16 968) | 386        |
|  | Downlink: Max number of bits/radio frame before rate matching |           | 8 484 (alt. 8 484)  | 386        |
|  | RM attribute                                                  |           | 135 to 175          | 230 to 250 |

#### 6.11.6.4.2.1.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

|              |                                                     |                                |            |                  |                 |
|--------------|-----------------------------------------------------|--------------------------------|------------|------------------|-----------------|
| Higher layer | RAB/signalling RB                                   | SRB#1                          | SRB#2      | SRB#3            | SRB#4           |
|              | User of Radio Bearer                                | RRC                            | RRC        | NAS_DT High prio | NAS_DT Low prio |
| RLC          | Logical channel type                                | DCCH                           | DCCH       | DCCH             | DCCH            |
|              | RLC mode                                            | UM                             | AM         | AM               | AM              |
|              | Payload sizes, bit                                  | 136                            | 128        | 128              | 128             |
|              | Max data rate, bps                                  | 3 400                          | 3 200      | 3 200            | 3 200           |
|              | AMD/UMD PDU header, bit                             | 8                              | 16         | 16               | 16              |
| MAC          | MAC header, bit                                     | 5                              | 5          | 5                | 5               |
|              | MAC multiplexing                                    | 4 logical channel multiplexing |            |                  |                 |
| Layer 1      | TrCH type                                           | DSCH                           |            |                  |                 |
|              | TB sizes, bit                                       | 149                            |            |                  |                 |
|              | TFS                                                 | TF0, bits                      | 0x149      |                  |                 |
|              |                                                     | TF1, bits                      | 1x149      |                  |                 |
|              | TTI, ms                                             |                                | 40         |                  |                 |
|              | Coding type                                         |                                | CC 1/3     |                  |                 |
|              | CRC, bit                                            |                                | 16         |                  |                 |
|              | Max number of bits/TTI before rate matching         |                                | 519        |                  |                 |
|              | Max number of bits/radio frame before rate matching |                                | 130        |                  |                 |
|              | RM attribute                                        |                                | 155 to 165 |                  |                 |

#### 6.11.6.4.2.1.2.1.3 TFCS for DSCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 20 (alt. 28)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| TFCS      | (256 kbps RAB, SHCCH, SRB for DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),<br>(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1)<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),<br>(TF5, TF0, TF0), (TF6, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0),<br>(TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF0, TF0, TF1),<br>(TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1),<br>(TF6, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1),<br>(TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1)) |

6.11.6.4.2.1.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

6.11.6.4.2.1.2.1.4.1 FACH transport channel configuration without DTCH

|                                                                               |                                                     |           |                                |                                                   |                         |                         |                         |                         |                         |
|-------------------------------------------------------------------------------|-----------------------------------------------------|-----------|--------------------------------|---------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Higher layer                                                                  | RAB/signalling RB                                   |           | SRB#0                          | SRB#1                                             | SRB#2                   | SRB#3                   | SRB#4                   | SRB#5                   | SRB#6                   |
|                                                                               | User of Radio Bearer                                |           | RRC                            | RRC                                               | RRC                     | NAS_DT<br>High prio     | NAS_DT<br>Low prio      | RRC                     | RRC                     |
| RLC                                                                           | Logical channel type                                |           | CCCH                           | DCCH                                              | DCCH                    | DCCH                    | DCCH                    | SHCCH                   | BCCH                    |
|                                                                               | RLC mode                                            |           | UM                             | UM                                                | AM                      | AM                      | AM                      | UM                      | TM                      |
|                                                                               | Payload sizes, bit                                  |           | 160                            | 136 or 120<br>(note)                              | 128                     | 128                     | 128                     | 160                     | 168                     |
|                                                                               | Max data rate, bps                                  |           | 32 000 (alt.<br>16 000)        | 27 200 or<br>24 000 (alt.<br>13 600 or<br>12 000) | 25 600 (alt.<br>12 800) | 25 600 (alt.<br>12 800) | 25 600 (alt.<br>12 800) | 32 000 (alt.<br>16 000) | 33 600 (alt.<br>16 800) |
|                                                                               | AMD/UMD/TrD PDU header, bit                         |           | 8                              | 8                                                 | 16                      | 16                      | 16                      | 8                       | 0                       |
| MAC                                                                           | MAC header, bit                                     |           | 3                              | 27 or 43                                          | 27                      | 27                      | 27                      | 3                       | 3                       |
|                                                                               | MAC multiplexing                                    |           | 7 logical channel multiplexing |                                                   |                         |                         |                         |                         |                         |
| Layer 1                                                                       | TrCH type                                           |           | FACH                           |                                                   |                         |                         |                         |                         |                         |
|                                                                               | TB sizes, bit                                       |           | 171                            |                                                   |                         |                         |                         |                         |                         |
|                                                                               | TFS                                                 | TF0, bits | 0x171                          |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF1, bits | 1x171                          |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF2, bits | 2x171                          |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF3, bits | 3x171(alt. N/A)                |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF4, bits | 4x171(alt. N/A)                |                                                   |                         |                         |                         |                         |                         |
|                                                                               | TTI, ms                                             |           | 20                             |                                                   |                         |                         |                         |                         |                         |
|                                                                               | Coding type                                         |           | TC                             |                                                   |                         |                         |                         |                         |                         |
|                                                                               | CRC, bit                                            |           | 16                             |                                                   |                         |                         |                         |                         |                         |
|                                                                               | Max number of bits/TTI after channel coding         |           | 2 256 (alt. 1 134)             |                                                   |                         |                         |                         |                         |                         |
|                                                                               | Max number of bits/radio frame before rate matching |           | 1 128 (alt. 567)               |                                                   |                         |                         |                         |                         |                         |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. |                                                     |           |                                |                                                   |                         |                         |                         |                         |                         |

## 6.11.6.4.2.1.2.1.4.2 FACH transport channel configuration with DTCH

|                                                                               |                                                     |           |                                   |                         |                                                   |                         |                         |                         |                         |                         |
|-------------------------------------------------------------------------------|-----------------------------------------------------|-----------|-----------------------------------|-------------------------|---------------------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Higher layer                                                                  | RAB/signalling RB                                   |           | RAB                               | SRB#0                   | SRB#1                                             | SRB#2                   | SRB#3                   | SRB#4                   | SRB#5                   | SRB#6                   |
|                                                                               | User of Radio Bearer                                |           | Interactive/<br>Background<br>RAB | RRC                     | RRC                                               | RRC                     | NAS_DT<br>High prio     | NAS_DT<br>Low prio      | RRC                     | RRC                     |
| RLC                                                                           | Logical channel type                                |           | DTCH                              | CCCH                    | DCCH                                              | DCCH                    | DCCH                    | DCCH                    | SHCCH                   | BCCH                    |
|                                                                               | RLC mode                                            |           | AM                                | UM                      | UM                                                | AM                      | AM                      | AM                      | UM                      | TM                      |
|                                                                               | Payload sizes, bit                                  |           | 320                               | 160                     | 136 or 120<br>(note)                              | 128                     | 128                     | 128                     | 160                     | 168                     |
|                                                                               | Max data rate, bps                                  |           | 32 000 (alt.<br>16 000)           | 32 000 (alt.<br>16 000) | 27 200 or<br>24 000 (alt.<br>13 600 or<br>12 000) | 25 600 (alt.<br>12 800) | 25 600 (alt.<br>12 800) | 25 600 (alt.<br>12 800) | 32 000 (alt.<br>16 000) | 33 600 (alt.<br>16 800) |
|                                                                               | AMD/UMD/TrD PDU header, bit                         |           | 16                                | 8                       | 8                                                 | 16                      | 16                      | 16                      | 8                       | 0                       |
| MAC                                                                           | MAC header, bit                                     |           | 27                                | 3                       | 27 or 43                                          | 27                      | 27                      | 27                      | 3                       | 3                       |
|                                                                               | MAC multiplexing                                    |           | 8 logical channel multiplexing    |                         |                                                   |                         |                         |                         |                         |                         |
| Layer 1                                                                       | TrCH type                                           |           | FACH                              |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | TB sizes, bit                                       |           | 171, 363                          |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | TFS                                                 | TF0, bits | 0x171                             |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF1, bits | 1x171                             |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF2, bits | 2x171                             |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF3, bits | 1x363                             |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF4, bits | 3x171 (alt N/A)                   |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF5, bits | 4x171 (alt. N/A)                  |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               |                                                     | TF6, bits | 2x363 (alt. N/A)                  |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | TTI, ms                                             |           | 20                                |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | Coding type                                         |           | TC                                |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | CRC, bit                                            |           | 16                                |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | Max number of bits/TTI after channel coding         |           | 2 286 (alt. 1 149)                |                         |                                                   |                         |                         |                         |                         |                         |
|                                                                               | Max number of bits/radio frame before rate matching |           | 1 143 (alt. 575)                  |                         |                                                   |                         |                         |                         |                         |                         |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. |                                                     |           |                                   |                         |                                                   |                         |                         |                         |                         |                         |



## 6.11.6.4.2.1.2.1.5 TFCS for FACH

## 6.11.6.4.2.1.2.1.5.1 TFCS for FACH transport channel configuration without DTCH

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| TFCS size | 5 (alt. 3)                                                                 |
| TFCS      | FACH = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. FACH = (TF0), (TF1), (TF2)) |

## 6.11.6.4.2.1.2.1.5.2 TFCS for FACH transport channel configuration with DTCH

|           |                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------|
| TFCS size | 7 (alt. 4)                                                                                      |
| TFCS      | FACH = (TF0), (TF1), (TF2), (TF3), (TF4), (TF5), (TF6) (alt. FACH = (TF0), (TF1), (TF2), (TF3)) |

## 6.11.6.4.2.1.2.2 Physical channel parameters

## 6.11.6.4.2.1.2.2.1 Physical channel parameters for PDSCH

|       |                                      |                               |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble                             | 512 chips                     |
|       | Codes and time slots                 | SF32 x 8 codes x 2 time slots |
|       | Max. Number of data bits/radio frame | 4 400 bits                    |
|       | TFCI code word                       | 16 bits                       |
|       | Puncturing Limit                     | 0.44                          |

## 6.11.6.4.2.1.2.2.2 Physical channel parameters for SCCPCH

## 6.11.6.4.2.1.2.2.2.1 Physical channel parameters for SCCPCH without DTCH

|        |                                      |                                                                      |
|--------|--------------------------------------|----------------------------------------------------------------------|
| SCCPCH | Midamble                             | 1024 chips                                                           |
|        | Codes and time slots                 | SF32 x 5 codes x 1 time slot<br>(alt. SF32 x 2 codes x 1 time slot ) |
|        | Max. Number of data bits/radio frame | 1 204 bits (alt. 480 bits)                                           |
|        | TFCI code word                       | 16 bits (alt. 8 bits)                                                |
|        | Puncturing Limit                     | 1 (alt. 0.84)                                                        |

## 6.11.6.4.2.1.2.2.2.2 Physical channel parameters for SCCPCH with DTCH

|        |                                      |                                                                      |
|--------|--------------------------------------|----------------------------------------------------------------------|
| SCCPCH | Midamble                             | 1024 chips                                                           |
|        | Codes and time slots                 | SF32 x 5 codes x 1 time slot<br>(alt. SF32 x 2 codes x 1 time slot ) |
|        | Max. Number of data bits/radio frame | 1 204 bits (alt. 472 bits)                                           |
|        | TFCI code word                       | 16 bits                                                              |
|        | Puncturing Limit                     | 1 (alt. 0.80)                                                        |

## 6.11.6.4.2.2 Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

## 6.11.6.4.2.2.1 Uplink

See clause 6.11.6.4.2.1.1.

## 6.11.6.4.2.2.2 Downlink

## 6.11.6.4.2.2.2.1 Transport channel parameters

## 6.11.6.4.2.2.2.1.1 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

|              |                         |         |        |
|--------------|-------------------------|---------|--------|
| Higher layer | RAB/Signalling RB       | RAB     | SRB#5  |
| RLC          | Logical channel type    | DTCH    | SHCCH  |
|              | RLC mode                | AM      | UM     |
|              | Payload sizes, bit      | 320     | 160    |
|              | Max data rate, bps      | 384 000 | 16 000 |
|              | AMD/UMD PDU header, bit | 16      | 8      |

|         |                                                               |                      |                   |
|---------|---------------------------------------------------------------|----------------------|-------------------|
| MAC     | MAC header, bit                                               | 1                    | 1                 |
|         | MAC multiplexing                                              | N/A                  | N/A               |
| Layer 1 | TrCH type                                                     | DSCH                 | DSCH              |
|         | TB sizes, bit                                                 | 337                  | 169               |
|         | TFS                                                           | TF0, bits            | 0x337             |
|         |                                                               | TF1, bits            | 1x337             |
|         |                                                               | TF2, bits            | 2x337             |
|         |                                                               | TF3, bits            | 4x337             |
|         |                                                               | TF4, bits            | 8x337             |
|         |                                                               | TF5, bits            | 12x337            |
|         |                                                               | TF6, bits            | N/A (alt. 16x337) |
|         |                                                               | TF7, bits            | N/A (alt. 20x337) |
|         |                                                               | TF8, bits            | N/A (alt. 24x337) |
|         | TTI, ms                                                       | 10 (alt. 20)         | 10                |
|         | Coding type                                                   | TC                   | CC 1/2            |
|         | CRC, bit                                                      | 16                   | 16                |
|         | Max number of bits/TTI after channel coding                   | 12 720 (alt. 25 440) | 386               |
|         | Downlink: Max number of bits/radio frame before rate matching | 12 720 (alt. 12 720) | 386               |
|         | RM attribute                                                  | 135 to 175           | 230 to 250        |

#### 6.11.6.4.2.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.11.6.4.2.1.2.1.2.

#### 6.11.6.4.2.2.1.3 TFCS for DSCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24 (alt. 36)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| TFCS      | (384 kbps RAB, SHCCH, SRBs for DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0, TF0),<br>(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1)<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5, TF0,<br>TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0),<br>(TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0),<br>(TF8, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),<br>(TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1),<br>(TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1),<br>(TF8, TF1, TF1)) |

#### 6.11.6.4.2.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH (with & without DTCH)

See clause 6.11.6.4.2.1.2.1.4.

#### 6.11.6.4.2.2.1.5 TFCS for FACH

See clause 6.11.6.4.2.1.2.1.5.

#### 6.11.6.4.2.2.2 Physical channel parameters

##### 6.11.6.4.2.2.2.1 Physical channel parameters for PDSCH

|       |                                      |                               |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble                             | 512 chips                     |
|       | Codes and time slots                 | SF32 x 8 codes x 3 time slots |
|       | Max. Number of data bits/radio frame | 6 608 bits (alt. 6 592 bits)  |
|       | TFCI code word                       | 16 bits (alt. 32 bits)        |
|       | Puncturing Limit                     | 0.48                          |

##### 6.11.6.4.2.2.2.2 Physical channel parameters for SCCPCH

See clause 6.11.6.4.2.1.2.2.2.

6.11.6.4.2.3 Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.6.4.2.3.1 Uplink

See clause 6.11.6.4.2.1.1.

6.11.6.4.2.3.2 Downlink

6.11.6.4.2.3.2.1 Transport channel parameters

6.11.6.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

| Higher layer | RAB/Signalling RB                                             | RAB                   | SRB#5                |
|--------------|---------------------------------------------------------------|-----------------------|----------------------|
| RLC          | Logical channel type                                          | DTCH                  | SHCCH                |
|              | RLC mode                                                      | AM                    | UM                   |
|              | Payload sizes, bit                                            | 640                   | 160                  |
|              | Max data rate, bps                                            | 2 048 000             | 16 000               |
|              | AMD/UMD PDU header, bit                                       | 16                    | 8                    |
| MAC          | MAC header, bit                                               | 1                     | 1                    |
|              | MAC multiplexing                                              | N/A                   | N/A                  |
| Layer 1      | TrCH type                                                     | DSCH                  | DSCH                 |
|              | TB sizes, bit                                                 | 657                   | 169                  |
|              | TFS                                                           | TF0, bits             | 0x657                |
|              |                                                               | TF1, bits             | 1x657                |
|              |                                                               | TF2, bits             | 2x657                |
|              |                                                               | TF3, bits             | 4x657                |
|              |                                                               | TF4, bits             | 8x657                |
|              |                                                               | TF5, bits             | 12x657               |
|              |                                                               | TF6, bits             | 16x657               |
|              |                                                               | TF7, bits             | 20x657               |
|              |                                                               | TF8, bits             | 24x657               |
|              |                                                               | TF9, bits             | 28x657               |
|              |                                                               | TF10, bits            | 30x657 (alt. 32x657) |
|              |                                                               | TF11, bits            | N/A (alt. 36x657)    |
|              |                                                               | TF12, bits            | N/A (alt. 40x657)    |
|              |                                                               | TF13, bits            | N/A (alt. 44x657)    |
|              |                                                               | TF14, bits            | N/A (alt. 48x657)    |
|              |                                                               | TF15, bits            | N/A (alt. 52x657)    |
|              |                                                               | TF16, bits            | N/A (alt. 56x657)    |
|              |                                                               | TF17, bits            | N/A (alt. 60x657)    |
|              |                                                               | TF18, bits            | N/A (alt. 64x657)    |
|              | TTI, ms                                                       | 10 (alt. 20)          | 10                   |
|              | Coding type                                                   | TC                    | CC 1/2               |
|              | CRC, bit                                                      | 16                    | 16                   |
|              | Max number of bits/TTI after channel coding                   | 60 624 (alt. 129 330) | 386                  |
|              | Downlink: Max number of bits/radio frame before rate matching | 60 624 (alt. 64 665)  | 386                  |
|              | RM attribute                                                  | 135 to 175            | 230 to 250           |

6.11.6.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.11.6.4.2.1.2.1.2.

6.11.6.4.2.3.2.1.3 TFCS for DSCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 41 (alt.76)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS      | (2 048 kbps RAB, SHCCH, SRBs for DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),<br>(TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10,<br>TF0, TF0),<br>(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0),<br>(TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF9, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1),<br>(TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1)<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),<br>(TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0),<br>(TF10, TF0, TF0), (TF11, TF0, TF0), (TF12, TF0, TF0), (TF13, TF0, TF0), (TF14, TF0, TF0),<br>(TF15, TF0, TF0), (TF16, TF0, TF0), (TF17, TF0, TF0), (TF18, TF0, TF0),<br>(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0),<br>(TF5, TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0),<br>(TF10, TF1, TF0), (TF11, TF1, TF0), (TF12, TF1, TF0), (TF13, TF1, TF0), (TF14, TF1, TF0),<br>(TF15, TF1, TF0), (TF16, TF1, TF0), (TF17, TF1, TF0), (TF18, TF1, TF0), (TF0, TF0, TF1),<br>(TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1),<br>(TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF9, TF0, TF1), (TF10, TF0, TF1),<br>(TF11, TF0, TF1), (TF12, TF0, TF1), (TF13, TF0, TF1), (TF14, TF0, TF1), (TF15, TF0, TF1),<br>(TF16, TF0, TF1), (TF17, TF0, TF1), (TF18, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1),<br>(TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1),<br>(TF10, TF1, TF1), (TF11, TF1, TF1), (TF12, TF1, TF1), (TF13, TF1, TF1), (TF14, TF1, TF1),<br>(TF15, TF1, TF1), (TF16, TF1, TF1), (TF17, TF1, TF1), (TF18, TF1, TF1)) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.11.6.4.2.3.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.6.4.2.1.2.1.4.1.

#### 6.11.6.4.2.3.2.1.5 TFCS for FACH

See clause 6.11.6.4.2.1.2.1.4.5.1.

#### 6.11.6.4.2.3.2.2 Physical channel parameters

##### 6.11.6.4.2.3.2.2.1 Physical channel parameters for PDSCH

|       |                                      |                                 |
|-------|--------------------------------------|---------------------------------|
| PDSCH | Midamble                             | 512 chips                       |
|       | Codes and time slots                 | SF32 x 12 codes x 11 time slots |
|       | Max. Number of data bits/radio frame | 36 400 bits                     |
|       | TFCI code word                       | 32 bits                         |
|       | Puncturing Limit                     | 0.56 (alt. 0.52)                |

##### 6.11.6.4.2.3.2.2.2 Physical channel parameters for SCCPCH

See clause 6.11.6.4.2.1.2.2.2.1.

#### 6.11.6.4.2.4 Interactive or background / UL: 384 DL: 2 048 kbps / PS RAB + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH + UL: 16.8 DL: 16 kbps SRBs for SHCCH

##### 6.11.6.4.2.4.1 Uplink

##### 6.11.6.4.2.4.1.1 Transport channel parameters

##### 6.11.6.4.2.4.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

| Higher layer | RAB/Signalling RB       | RAB            | SRB#5              |
|--------------|-------------------------|----------------|--------------------|
| RLC          | Logical channel type    | DTCH           | SHCCH              |
|              | RLC mode                | AM             | TM                 |
|              | Payload sizes, bit      | 320 (alt. 128) | 168                |
|              | Max data rate, bps      | 384 000        | 16 800             |
|              | AMD/TrD PDU header, bit | 16             | 0                  |
| MAC          | MAC header, bit         | 1              | 1                  |
|              | MAC multiplexing        | N/A            | N/A                |
| Layer 1      | TrCH type               | USCH           | USCH               |
|              | TB sizes, bit           | 337 (alt. 145) | 169                |
|              | TFS                     | TF0, bits      | 0x337 (alt. 0x145) |
|              |                         | TF1, bits      | 1x337 (alt. 1x145) |

|  |                                                     |           |                      |            |
|--|-----------------------------------------------------|-----------|----------------------|------------|
|  |                                                     | TF2, bits | 2x337 (alt. 5x145)   | N/A        |
|  |                                                     | TF3, bits | 4x337 (alt. 10x145)  | N/A        |
|  |                                                     | TF4, bits | 8x337 (alt. 20x145)  | N/A        |
|  |                                                     | TF5, bits | 12x337 (alt. 30x145) | N/A        |
|  |                                                     | TF6, bits | 16x337 (alt. 40x145) | N/A        |
|  |                                                     | TF7, bits | 20x337 (alt. 50x145) | N/A        |
|  |                                                     | TF8, bits | 24x337 (alt. 60x145) | N/A        |
|  | TTI, ms                                             |           | 20                   | 10         |
|  | Coding type                                         |           | TC                   | CC 1/2     |
|  | CRC, bit                                            |           | 16                   | 16         |
|  | Max number of bits/TTI after channel coding         |           | 25 440 (alt. 29 004) | 386        |
|  | Max number of bits/radio frame before rate matching |           | 12 720 (alt. 14 502) | 386        |
|  | RM attribute                                        |           | 135 to 175           | 230 to 250 |

#### 6.11.6.4.2.4.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

See clause 6.11.6.4.2.1.1.1.2.

#### 6.11.6.4.2.4.1.1.3 TFCS for USCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TFCS      | (384 kbps RAB, SHCCH, SRBs for DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),<br>(TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0),<br>(TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0),<br>(TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1),<br>(TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1),<br>(TF7, TF0, TF1), (TF8, TF0, TF1)<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1),<br>(TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1) |

#### 6.11.6.4.2.4.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

See clause 6.11.6.4.2.1.1.1.4.

#### 6.11.6.4.2.4.1.2 Physical channel parameters

##### 6.11.6.4.2.4.1.2.1 Physical channel parameters for PUSCH

|       |                                      |                             |
|-------|--------------------------------------|-----------------------------|
| PUSCH | Midamble                             | 1024 chips                  |
|       | Codes and time slots                 | SF2 x 1 code x 2 time slots |
|       | Max. Number of data bits/radio frame | 7 264 bits                  |
|       | TFCI code word                       | 32 bits                     |
|       | TPC                                  | 2 bits                      |
|       | Puncturing Limit                     | 0.52 (alt. 0.44)            |

##### 6.11.6.4.2.4.1.2.2 Physical channel parameters for PRACH

See clause 6.11.6.4.2.1.1.2.2.

#### 6.11.6.4.2.4.2 Downlink

##### 6.11.6.4.2.4.2.1 Transport channel parameters

See clause 6.11.6.4.2.3.2.1.

##### 6.11.6.4.2.4.2.2 Physical channel parameters

##### 6.11.6.4.2.4.2.2.1 Physical channel parameters for PDSCH

|       |          |           |
|-------|----------|-----------|
| PDSCH | Midamble | 512 chips |
|-------|----------|-----------|

|  |                                      |                              |
|--|--------------------------------------|------------------------------|
|  | Codes and time slots                 | SF1 x 1 codes x 4 time slots |
|  | Max. Number of data bits/radio frame | 35 296 bits                  |
|  | TFCI code word                       | 32 bits                      |
|  | Puncturing Limit                     | 0.56 (alt. 0.52)             |

#### 6.11.6.4.2.4.2.2.2 Physical channel parameters for SCCPCH

See clause 6.11.6.4.2.1.2.2.2.1.

#### 6.11.6.4.3 Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

6.11.6.4.3.1 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps  
SRBs for DCCH + Interactive or background / UL: 64 DL: 256 kbps / PS RAB + UL:  
16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH SHCCH and  
BCCH

6.11.6.4.3.1.1 Uplink

6.11.6.4.3.1.1.1 Transport channel parameters

6.11.6.4.3.1.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.3.1.1.1.2 Transport channel parameters for UL SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.3.1.1.1.3 TFCS for DCH

See clause 6.11.6.4.1.4.1.1.3.

6.11.6.4.3.1.1.1.4 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB  
and UL SRB for SHCCH mapped on USCH

See clause 6.11.6.4.2.1.1.1.1.

6.11.6.4.3.1.1.1.5 TFCS for USCH

|           |                                                                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10                                                                                                                                                 |
| TFCS      | (64 kbps RAB, SHCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1),<br>(TF3, TF1), (TF4, TF1) |

6.11.6.4.3.1.1.1.6 Transport channel parameters for SRB for CCCH and UL SRB for SHCCH mapped on  
RACH

|              |                                                     |                                |        |
|--------------|-----------------------------------------------------|--------------------------------|--------|
| Higher layer | RAB/signalling RB                                   | SRB#0                          | SRB#5  |
|              | User of Radio Bearer                                | RRC                            | RRC    |
| RLC          | Logical channel type                                | CCCH                           | SHCCH  |
|              | RLC mode                                            | TM                             | TM     |
|              | Payload sizes, bit                                  | 168                            | 168    |
|              | Max data rate, bps                                  | 16 800                         | 16 800 |
|              | TrD PDU header, bit                                 | 0                              | 0      |
| MAC          | MAC header, bit                                     | 2                              | 2      |
|              | MAC multiplexing                                    | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                           | RACH                           |        |
|              | TB sizes, bit                                       | 170                            |        |
|              | TFS                                                 | 1x170                          |        |
|              | TTI, ms                                             | 10                             |        |
|              | Coding type                                         | CC 1/2                         |        |
|              | CRC, bit                                            | 16                             |        |
|              | Max number of bits/TTI after channel coding         | 388                            |        |
|              | Max number of bits/radio frame before rate matching | 388                            |        |

## 6.11.6.4.3.1.1.2 Physical channel parameters

## 6.11.6.4.3.1.1.2.1 Physical channel parameters for DPCH

See clause 6.11.6.4.1.4.1.2.

## 6.11.6.4.3.1.1.2.2 Physical channel parameters for PUSCH

|       |                                      |                            |
|-------|--------------------------------------|----------------------------|
| PUSCH | Midamble                             | 1024 chips                 |
|       | Codes and time slots                 | SF4 x 1 code x 1 time slot |
|       | Max. Number of data bits/radio frame | 1 808 bits                 |
|       | TFCI code word                       | 16 bits                    |
|       | TPC                                  | 2 bits                     |
|       | Puncturing Limit                     | 0.76 (alt. 0.68)           |

## 6.11.6.4.3.1.1.2.3 Physical channel parameters for PRACH

See clause 6.11.6.4.2.1.1.2.2.

## 6.11.6.4.3.1.2 Downlink

## 6.11.6.4.3.1.2.1 Transport channel parameters

## 6.11.6.4.3.1.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

## 6.11.6.4.3.1.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.3.1.2.1.3 TFCS for DCH

See clause 6.11.6.4.1.4.2.1.3.

## 6.11.6.4.3.1.2.1.4 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.11.6.4.2.1.2.1.1.

## 6.11.6.4.3.1.2.1.5 TFCS for DSCH

|           |                                                                                                                                                                                                                                                                                                                                         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10 (alt. 14)                                                                                                                                                                                                                                                                                                                            |
| TFCS      | (256 kbps RAB, SHCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1),<br>(TF3, TF1), (TF4, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1)) |

## 6.11.6.4.3.1.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

|              |                         |                                |                      |                      |
|--------------|-------------------------|--------------------------------|----------------------|----------------------|
| Higher layer | RAB/Signalling RB       | SRB#0                          | SRB#5                | SRB#6                |
|              | User of Radio Bearer    | RRC                            | RRC                  | RRC                  |
| RLC          | Logical channel type    | CCCH                           | SHCCH                | BCCH                 |
|              | RLC mode                | UM                             | UM                   | TM                   |
|              | Payload sizes, bit      | 160                            | 160                  | 168                  |
|              | Max data rate, bps      | 32 000 (alt. 16 000)           | 32 000 (alt. 16 000) | 33 600 (alt. 16 800) |
|              | UMD/TrD PDU header, bit | 8                              | 8                    | 0                    |
| MAC          | MAC header, bit         | 3                              |                      |                      |
|              | MAC multiplexing        | 3 logical channel multiplexing |                      |                      |
| Layer 1      | TrCH type               | FACH                           |                      |                      |
|              | TB sizes, bit           | 171                            |                      |                      |
|              | TFS                     | TF0, bits                      | 0x171                |                      |
|              |                         | TF1, bits                      | 1x171                |                      |

|  |                                                     |           |                    |
|--|-----------------------------------------------------|-----------|--------------------|
|  |                                                     | TF2, bits | 2x171              |
|  |                                                     | TF3, bits | 3x171 (alt. N/A)   |
|  |                                                     | TF4, bits | 4x171 (alt. N/A)   |
|  | TTI, ms                                             |           | 20                 |
|  | Coding type                                         |           | TC                 |
|  | CRC, bit                                            |           | 16                 |
|  | Max number of bits/TTI after channel coding         |           | 2 256 (alt. 1 134) |
|  | Max number of bits/radio frame before rate matching |           | 1 128 (alt 567)    |

## 6.11.6.4.3.1.2.1.7 TFCS for FACH

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| TFCS size | 5 (alt. 3)                                                                 |
| TFCS      | FACH = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. FACH = (TF0), (TF1), (TF2)) |

## 6.11.6.4.3.1.2.2 Physical channel parameters

## 6.11.6.4.3.1.2.2.1 Physical channel parameters for DPCH

See clause 6.11.6.4.1.4.2.2.

## 6.11.6.4.3.1.2.2.2 Physical channel parameters for PDSCH

|       |                                      |                               |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble                             | 512 chips                     |
|       | Codes and time slots                 | SF32 x 8 codes x 2 time slots |
|       | Max. Number of data bits/radio frame | 4 400 bits                    |
|       | TFCI code word                       | 16 bits                       |
|       | Puncturing Limit                     | 0.48                          |

## 6.11.6.4.3.1.2.2.3 Physical channel parameters for SCCPCH

See clause 6.11.6.4.2.1.2.2.2.1.

6.11.6.4.3.2 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps  
SRBs for DCCH + Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL:  
16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and  
BCCH

## 6.11.6.4.3.2.1 Uplink

See clause 6.11.6.4.3.1.1.

## 6.11.6.4.3.2.2 Downlink

## 6.11.6.4.3.2.2.1 Transport channel parameters

## 6.11.6.4.3.2.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

## 6.11.6.4.3.2.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.3.2.2.1.3 TFCS for DCH

See clause 6.11.6.4.1.4.2.1.3.

6.11.6.4.3.2.2.1.4 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB  
and DL SRB for SHCCH mapped on DSCH

See clause 6.11.6.4.2.2.2.1.1.

## 6.11.6.4.3.2.2.1.5 TFCS for DSCH



|           |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12 (alt. 18)                                                                                                                                                                                                                                                                                                                                                                                                          |
| TFCS      | (384 kbps RAB, SHCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1)) |

6.11.6.4.3.2.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.6.4.3.1.2.1.6.

6.11.6.4.3.2.2.1.7 TFCS for FACH

See clause 6.11.6.4.3.1.2.1.7.

6.11.6.4.3.2.2.2 Physical channel parameters

6.11.6.4.3.2.2.2.1 Physical channel parameters for downlink DPCH

See clause 6.11.6.4.1.4.2.2.

6.11.6.4.3.2.2.2.2 Physical channel parameters for PDSCH

|       |                                      |                               |
|-------|--------------------------------------|-------------------------------|
| PDSCH | Midamble                             | 512 chips                     |
|       | Codes and time slots                 | SF32 x 8 codes x 3 time slots |
|       | Max. Number of data bits/radio frame | 6 608 bits                    |
|       | TFCI code word                       | 16 bits                       |
|       | Puncturing Limit                     | 0.48                          |

6.11.6.4.3.2.2.2.3 Physical channel parameters for SCCPCH

See clause 6.11.6.4.2.1.2.2.2.1.

6.11.6.4.3.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps  
SRBs for DCCH + Interactive or background / UL: 64 DL: 2 048 kbps / PS RAB + UL:  
16.8 kbps SRBs for CCCH and SHCCH+ DL: 33.6 kbps SRBs for CCCH, SHCCH and  
BCCH

6.11.6.4.3.3.1 Uplink

See clause 6.11.6.4.3.1.1.

6.11.6.4.3.3.2 Downlink

6.11.6.4.3.3.2.1 Transport channel parameters

6.11.6.4.3.3.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.3.3.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.3.3.2.1.3 TFCS for DCH

See clause 6.11.6.4.1.4.2.1.3.

6.11.6.4.3.3.2.1.4 Transport channel parameters for Interactive or background / DL: 2 048 kbps / PS  
RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.11.6.4.2.3.2.1.1.

## 6.11.6.4.3.3.2.1.5 TFCS for DSCH

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 22 (alt. 38)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TFCS      | (2 048 kbps RAB, SHCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0), (TF9, TF0), (TF10, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1), (TF9, TF1)<br>(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),<br>(TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15, TF0),<br>(TF16, TF0), (TF17, TF0), (TF18, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),<br>(TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15, TF1),<br>(TF16, TF1), (TF17, TF1), (TF18, TF1)) |

## 6.11.6.4.3.3.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.6.4.3.1.2.1.6.

## 6.11.6.4.3.3.2.1.7 TFCS for FACH

See clause 6.11.6.4.3.1.2.1.7.

## 6.11.6.4.3.3.2.2 Physical channel parameters

## 6.11.6.4.3.3.2.2.1 Physical channel parameters for downlink DPCH

See clause 6.11.6.4.1.4.2.2.

## 6.11.6.4.3.3.2.2.2 Physical channel parameters for PDSCH

|               |                                      |                            |
|---------------|--------------------------------------|----------------------------|
| DPCH Downlink | Midamble                             | 512 chips                  |
|               | Codes and time slots                 | SF1 x 1 code x 4 time slot |
|               | Max. Number of data bits/radio frame | 35 312 bits (alt. 35 296)  |
|               | TFCI code word                       | 16 bits (alt. 32 bits)     |
|               | Puncturing limit                     | 0.56 (alt. 0.52)           |

## 6.11.6.4.3.3.2.2.3 Physical channel parameters for SCCPCH

See clause 6.11.6.4.2.1.2.2.2.1.

## 6.11.6.4.4 Combinations on SCCPCH

## 6.11.6.4.4.1 Stand-alone signalling RB for PCCH

## 6.11.6.4.4.1.1 Transport channel parameters

## 6.11.6.4.4.1.1.1 Transport channel parameter of SRB for PCCH

|              |                      |           |                     |
|--------------|----------------------|-----------|---------------------|
| Higher layer | RAB/signalling RB    |           | SRB                 |
|              | User of Radio Bearer |           | RRC                 |
| RLC          | Logical channel type |           | PCCH                |
|              | RLC mode             |           | TM                  |
|              | Payload sizes, bit   |           | 240 (alt. 80)       |
|              | Max data rate, bps   |           | 12 000 (alt. 8 000) |
|              | TrD PDU header, bit  |           | 0                   |
| MAC          | MAC header, bit      |           | 0                   |
|              | MAC multiplexing     |           | N/A                 |
| Layer 1      | TrCH type            |           | PCH                 |
|              | TB sizes, bit        |           | 240 (alt. 80)       |
|              | TFS                  | TF0, bts  | 0x240 (alt. 0x80)   |
|              |                      | TF1, bits | 1x240 (alt. 1x80)   |
|              |                      | TF2, bits | N/A (alt. 2x80)     |
|              | TTI, ms              |           | 20                  |

|  |                                                     |                |
|--|-----------------------------------------------------|----------------|
|  | Coding type                                         | CC 1/2         |
|  | CRC, bit                                            | 16             |
|  | Max number of bits/TTI before rate matching         | 528 (alt. 400) |
|  | Max number of bits/radio frame before rate matching | 264 (alt. 200) |
|  | RM attribute                                        | 210 to 250     |

## 6.11.6.4.4.1.1.2 TFCS

|           |                                                         |
|-----------|---------------------------------------------------------|
| TFCS size | 2 (alt. 3)                                              |
| TFCS      | SRBs for PCCH = (TF0), (TF1) (alt. (TF0), (TF1), (TF2)) |

## 6.11.6.4.4.1.2 Physical channel parameters

|         |                                      |                                                                    |
|---------|--------------------------------------|--------------------------------------------------------------------|
| S-CCPCH | Midamble                             | 1024 chips                                                         |
|         | Codes and time slots                 | SF32 x 2 codes x 1 time slot<br>(alt. SF32 x 1 code x 1 time slot) |
|         | Max. Number of data bits/radio frame | 480 bits (alt. 236 bits)                                           |
|         | TFCI code word                       | 8 bits                                                             |
|         | Puncturing limit                     | 1                                                                  |

## 6.11.6.4.4.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

## 6.11.6.4.4.2.1 Transport channel parameters

## 6.11.6.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

|              |                                                     |           |                             |
|--------------|-----------------------------------------------------|-----------|-----------------------------|
| Higher layer | RAB/signalling RB                                   |           | RAB                         |
|              | User of Radio Bearer                                |           | Interactive/ Background RAB |
| RLC          | Logical channel type                                |           | DTCH                        |
|              | RLC mode                                            |           | AM                          |
|              | Payload sizes, bit                                  |           | 320                         |
|              | Max data rate, bps                                  |           | 32 000 (alt. 16 000)        |
|              | AMD PDU header, bit                                 |           | 16                          |
| MAC          | MAC header, bit                                     |           | 27                          |
|              | MAC multiplexing                                    |           | N/A                         |
| Layer 1      | TrCH type                                           |           | FACH                        |
|              | TB sizes, bit                                       |           | 363                         |
|              | TFS                                                 | TF0, bits | 0 x363                      |
|              |                                                     | TF1, bits | 1x363                       |
|              |                                                     | TF2, bits | 2x363 (alt. N/A)            |
|              | TTI, ms                                             |           | 20                          |
|              | Coding type                                         |           | TC                          |
|              | CRC, bit                                            |           | 16                          |
|              | Max number of bits/TTI before rate matching         |           | 2 286 (alt. 1 149)          |
|              | Max number of bits/radio frame before rate matching |           | 1 143 (alt. 575)            |
|              | RM attribute                                        |           | 110 to 150                  |

## 6.11.6.4.4.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

|              |                      |       |                      |       |                     |                    |       |
|--------------|----------------------|-------|----------------------|-------|---------------------|--------------------|-------|
| Higher layer | RAB/signalling RB    | SRB#0 | SRB#1                | SRB#2 | SRB#3               | SRB#4              | SRB#5 |
|              | User of Radio Bearer | RRC   | RRC                  | RRC   | NAS_DT<br>High_prio | NAS_DT<br>Low_prio | RRC   |
| RLC          | Logical channel type | CCCH  | DCCH                 | DCCH  | DCCH                | DCCH               | BCCH  |
|              | RLC mode             | UM    | UM                   | AM    | AM                  | AM                 | TM    |
|              | Payload sizes, bit   | 160   | 136 or 120<br>(note) | 128   | 128                 | 128                | 168   |

|                                                                               |                                                     |                                |                                                      |                            |                            |                            |                            |
|-------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------|------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
|                                                                               | Max data rate, bps                                  | 32 000<br>(alt.<br>16 000)     | 27 200 or<br>24 000<br>(alt.<br>24 000 or<br>12 000) | 25 600<br>(alt.<br>12 800) | 25 600<br>(alt.<br>12 800) | 25 600<br>(alt.<br>12 800) | 33 600<br>(alt.<br>16 800) |
|                                                                               | AMD/UMD/TrD PDU header, bit                         | 8                              | 8                                                    | 16                         | 16                         | 16                         | 0                          |
| MAC                                                                           | MAC header, bit                                     | 3                              | 27 or 43                                             | 27                         | 27                         | 27                         | 3                          |
|                                                                               | MAC multiplexing                                    | 6 logical channel multiplexing |                                                      |                            |                            |                            |                            |
| Layer 1                                                                       | TrCH type                                           |                                | FACH                                                 |                            |                            |                            |                            |
|                                                                               | TB sizes, bit                                       |                                | 171                                                  |                            |                            |                            |                            |
|                                                                               | TFS                                                 | TF0, bits                      | 0x171                                                |                            |                            |                            |                            |
|                                                                               |                                                     | TF1, bits                      | 1x171                                                |                            |                            |                            |                            |
|                                                                               |                                                     | TF2, bits                      | 2x171                                                |                            |                            |                            |                            |
|                                                                               |                                                     | TF3, bits                      | 3x171 (alt. N/A)                                     |                            |                            |                            |                            |
|                                                                               |                                                     | TF4, bits                      | 4x171 (alt. N/A)                                     |                            |                            |                            |                            |
|                                                                               | TTI, ms                                             |                                | 20                                                   |                            |                            |                            |                            |
|                                                                               | Coding type                                         |                                | TC                                                   |                            |                            |                            |                            |
|                                                                               | CRC, bit                                            |                                | 16                                                   |                            |                            |                            |                            |
|                                                                               | Max number of bits/TTI before rate matching         |                                | 2 256 (alt. 1 134)                                   |                            |                            |                            |                            |
|                                                                               | Max number of bits/radio frame before rate matching |                                | 1 128 (alt. 567)                                     |                            |                            |                            |                            |
| RM attribute                                                                  |                                                     | 200 to 240                     |                                                      |                            |                            |                            |                            |
| NOTE: MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI. |                                                     |                                |                                                      |                            |                            |                            |                            |

## 6.11.6.4.4.2.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                                                |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 9 (alt. 4)                                                                                                                                                                                                                                                                                                                     |
| TFCS      | (32kbps RAB, SRBs for CCCH/DCCH/BCCH) =<br>(TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2),<br>(TF2, TF0)<br>(alt. (TF0, TF0), (TF0, TF1), (TF0, TF2),<br>(TF1, TF0))                                                                                                           |
| NOTE:     | First TFCS applies when the alternative for the 32 kbps RAB and the alternative for the SRBs for CCCH/DCCH/BCCH are both not configured. The alt. TFCS applies when both the alt. for the 32 kbps RAB and the alt. for the SRBs for CCCH/DCCH/BCCH are configured. All other combinations of these alternatives are not valid. |

## 6.11.6.4.4.2.2 Physical channel parameters

|         |                                      |                                                                     |
|---------|--------------------------------------|---------------------------------------------------------------------|
| S-CCPCH | Midamble                             | 1024 chips                                                          |
|         | Codes and time slots                 | SF32 x 5 codes x 1 time slot<br>(alt. SF32 x 2 codes x 1 time slot) |
|         | Max. Number of data bits/radio frame | 1 204 bits (alt. 472)                                               |
|         | TFCI code word                       | 16 bits                                                             |
|         | Puncturing limit                     | 0.60 (alt. 0.48)                                                    |

## 6.11.6.4.4.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

## 6.11.6.4.4.2a.1 Transport channel parameters

## 6.11.6.4.4.2a.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB

|              |                      |                            |                            |
|--------------|----------------------|----------------------------|----------------------------|
| Higher layer | RAB/Signalling RB    | RAB                        | RAB                        |
|              | User of Radio Bearer | Interactive/Background RAB | Interactive/Background RAB |
| RLC          | Logical channel type | DTCH                       | DTCH                       |
|              | RLC mode             | AM                         | AM                         |
|              | Payload sizes, bit   | 320                        | 320                        |
|              | Max data rate, bps   | 32 000 (alt. 16 000)       | 32 000 (alt. 16 000)       |
|              | AMD PDU header, bit  | 16                         | 16                         |
| MAC          | MAC header, bit      | 27                         | 27                         |

|         |                                                     |           |                                |  |
|---------|-----------------------------------------------------|-----------|--------------------------------|--|
| Layer 1 | MAC multiplexing                                    |           | 2 logical channel multiplexing |  |
|         | TrCH type                                           |           | FACH                           |  |
|         | TB sizes, bit                                       |           | 363                            |  |
|         | TFS                                                 | TF0, bits | 0x363                          |  |
|         |                                                     | TF1, bits | 1x363                          |  |
|         |                                                     | TF2, bits | 2x363 (alt. N/A)               |  |
|         | TTI, ms                                             |           | 20                             |  |
|         | Coding type                                         |           | TC                             |  |
|         | CRC, bit                                            |           | 16                             |  |
|         | Max number of bits/TTI before rate matching         |           | 2 286 (alt. 1 149)             |  |
|         | Max number of bits/radio frame before rate matching |           | 1 143 (alt. 575)               |  |
|         | RM attribute                                        |           | 110 to 150                     |  |

#### 6.11.6.4.4.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.6.4.4.2.1.2.

#### 6.11.6.4.4.2a.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                                                  |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 9 (alt. 4)                                                                                                                                                                                                                                                                                                                       |
| TFCS      | (32kbps RAB + 32kbps RAB, SRBs for CCCH/DCCH/BCCH) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2), (TF2, TF0) (alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0))                                                                                                            |
| NOTE:     | First TFCS applies when the alternative for the 32 kbps RABs and the alternative for the SRBs for CCCH/DCCH/BCCH are both not configured. The alt. TFCS applies when both the alt. for the 32 kbps RABs and the alt. for the SRBs for CCCH/DCCH/BCCH are configured. All other combinations of these alternatives are not valid. |

#### 6.11.6.4.4.2a.2 Physical channel parameters

|         |                                      |                                                                  |
|---------|--------------------------------------|------------------------------------------------------------------|
| S-CCPCH | Midamble                             | 1024 chips                                                       |
|         | Codes and time slots                 | SF32 x 5 codes x 1 time slot (alt. SF32 x 2 codes x 1 time slot) |
|         | Max. Number of data bits/radio frame | 1 204 bits (alt. 472)                                            |
|         | TFCI code word                       | 16 bits                                                          |
|         | Puncturing limit                     | 0.60 (alt. 0.48)                                                 |

#### 6.11.6.4.4.2b SRBs for CCCH + SRB for DCCH + SRB for BCCH

##### 6.11.6.4.4.2b.1 Transport channel parameters

#### 6.11.6.4.4.2b.1.1 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.6.4.4.2.1.2.

#### 6.11.6.4.4.2b.1.2 TFCS

|           |                                                                                          |
|-----------|------------------------------------------------------------------------------------------|
| TFCS size | 5 (alt. 3)                                                                               |
| TFCS      | (SRBs for CCCH/DCCH/BCCH) = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. (TF0), (TF1), (TF2)) |

#### 6.11.6.4.4.2b.2 Physical channel parameters

|         |                                      |                                                                  |
|---------|--------------------------------------|------------------------------------------------------------------|
| S-CCPCH | Midamble                             | 1024 chips                                                       |
|         | Codes and time slots                 | SF32 x 5 codes x 1 time slot (alt. SF32 x 2 codes x 1 time slot) |
|         | Max. Number of data bits/radio frame | 1 204 bits (alt. 480 bits)                                       |
|         | TFCI code word                       | 16 bits (alt. 8 bits)                                            |

|  |                  |               |
|--|------------------|---------------|
|  | Puncturing limit | 1 (alt. 0.84) |
|--|------------------|---------------|

6.11.6.4.4.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.11.6.4.4.3.1 Transport channel parameters

6.11.6.4.4.3.1.1 Transport channel parameters for Interactive/Background 32 kbps RAB

See clause 6.11.6.4.4.2.1.1.

6.11.6.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.11.6.4.4.1.1.1.

6.11.6.4.4.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.6.4.4.2.1.2.

6.11.6.4.4.3.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 30 (alt. 8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (32 kbps RAB, SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) =<br>(TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF0, TF2), (TF0, TF0, TF3), (TF0, TF0, TF4), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, TF1, TF3), (TF0, TF1, TF4), (TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF0, TF2), (TF1, TF0, TF3), (TF1, TF0, TF4), (TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF1, TF2), (TF1, TF1, TF3), (TF1, TF1, TF4), (TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF0, TF2), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF1, TF2), (TF2, TF1, TF3), (TF2, TF1, TF4)<br>(alt. (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF0, TF2), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF2, TF0), (TF0, TF2, TF1), (TF1, TF0, TF0)) |
| NOTE:     | Alt. TFCS applies when alts for 32 kbps RAB, SRB for PCCH, and SRBs for CCCH/ DCCH/ BCCH are all configured.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

6.11.6.4.4.3.2 Physical channel parameters

|                                                                                                 |                                      |                                                                     |
|-------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|
| S-CCPCH                                                                                         | Midamble                             | 1024 chips                                                          |
|                                                                                                 | Codes and time slots                 | SF32 x 8 codes x 1 time slot<br>(alt. SF32 x 2 codes x 1 time slot) |
|                                                                                                 | Max. Number of data bits/radio frame | 1 936 bits (alt. 472 bits)                                          |
|                                                                                                 | TFCI code word                       | 16 bits                                                             |
|                                                                                                 | Puncturing limit                     | 0.52 (alt. 0.56)                                                    |
| NOTE: Alt. applies when alts for 32 kbps RAB and SRBs for CCCH/ DCCH/ BCCH are both configured. |                                      |                                                                     |

6.11.6.4.4.3a SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.11.6.4.4.3a.1 Transport channel parameters

6.11.6.4.4.3a.1.1 Transport channel parameters of SRB for PCCH

See clause 6.11.6.4.4.1.1.1.

6.11.6.4.4.3a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.6.4.4.2.1.2.

6.11.6.4.4.3a.1.3 TFCS

|           |                                                                                                                                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 10 (alt. 7)                                                                                                                                                                                                                                                        |
| TFCS      | (SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) =<br>(TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2), (TF1, TF3), (TF1, TF4)<br>(alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0), (TF1, TF1), (TF2, TF0), (TF2, TF1)) |
| NOTE:     | Alt. TFCS applies when alts for SRB for PCCH and SRBs for CCCH/ DCCH/ BCCH are both configured.                                                                                                                                                                    |

## 6.11.6.4.4.3a.2 Physical channel parameters

|                                                                          |                                      |                                                                     |
|--------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|
| S-CCPCH                                                                  | Midamble                             | 1024 chips                                                          |
|                                                                          | Codes and time slots                 | SF32 x 5 codes x 1 time slot<br>(alt. SF32 x 2 codes x 1 time slot) |
|                                                                          | Max. Number of data bits/radio frame | 1 204 bits (alt. 480 bits)                                          |
|                                                                          | TFCI code word                       | 16 bits (alt. 8 bits)                                               |
|                                                                          | Puncturing limit                     | 0.84 (alt. 0.84)                                                    |
| NOTE: Alt. applies when alt for SRBs for CCCH/ DCCH/ BCCH is configured. |                                      |                                                                     |

## 6.11.6.4.4.4 RB for CTCH + SRB for CCCH + SRB for BCCH

## 6.11.6.4.4.4.1 Transport channel parameters

## 6.11.6.4.4.4.1.1 Transport channel parameters of RB for CTCH

|              |                                                     |           |            |
|--------------|-----------------------------------------------------|-----------|------------|
| Higher layer | RAB/signalling RB                                   |           | N/A        |
|              | User of Radio Bearer                                |           | BMC        |
| RLC          | Logical channel type                                |           | CTCH       |
|              | RLC mode                                            |           | UM         |
|              | Payload sizes, bit                                  |           | 152        |
|              | Max data rate, bps                                  |           | 15 200     |
|              | UMD PDU header, bit                                 |           | 8          |
| MAC          | MAC header, bit                                     |           | 3          |
|              | MAC multiplexing                                    |           | N/A        |
| Layer 1      | TrCH type                                           |           | FACH       |
|              | TB sizes, bit                                       |           | 163        |
|              | TFS                                                 | TF0, bits | 0x163      |
|              |                                                     | TF1, bits | 1x163      |
|              |                                                     | TF2, bits | 2x163      |
|              | TTI, ms                                             |           | 20         |
|              | Coding type                                         |           | CC 1/3     |
|              | CRC, bit                                            |           | 16         |
|              | Max number of bits/TTI before rate matching         |           | 1 098      |
|              | Max number of bits/radio frame before rate matching |           | 549        |
|              | RM attribute                                        |           | 200 to 240 |

## 6.11.6.4.4.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

|              |                                                     |           |                                |        |
|--------------|-----------------------------------------------------|-----------|--------------------------------|--------|
| Higher layer | RAB/signalling RB                                   |           | SRB#0                          | SRB#5  |
|              | User of Radio Bearer                                |           | RRC                            | RRC    |
| RLC          | Logical channel type                                |           | CCCH                           | BCCH   |
|              | RLC mode                                            |           | UM                             | TM     |
|              | Payload sizes, bit                                  |           | 160                            | 168    |
|              | Max data rate, bps                                  |           | 16 000                         | 16 800 |
|              | AMD/UMD/TrD PDU header, bit                         |           | 8                              | 0      |
| MAC          | MAC header, bit                                     |           | 3                              | 3      |
|              | MAC multiplexing                                    |           | 2 logical channel multiplexing |        |
| Layer 1      | TrCH type                                           |           | FACH                           |        |
|              | TB sizes, bit                                       |           | 171                            |        |
|              | TFS                                                 | TF0, bits | 0x171                          |        |
|              |                                                     | TF1, bits | 1x171                          |        |
|              |                                                     | TF2, bits | 2x171                          |        |
|              | TTI, ms                                             |           | 20                             |        |
|              | Coding type                                         |           | TC                             |        |
|              | CRC, bit                                            |           | 16                             |        |
|              | Max number of bits/TTI before rate matching         |           | 1 134                          |        |
|              | Max number of bits/radio frame before rate matching |           | 567                            |        |
|              | RM attribute                                        |           | 200 to 240                     |        |

## 6.11.6.4.4.4.1.3 TFCS

|           |                                                                                                            |
|-----------|------------------------------------------------------------------------------------------------------------|
| TFCS size | 4                                                                                                          |
| TFCS      | (RB for CTCH, SRBs for CCCH/BCCH) = (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0), (TF1, TF1), (TF2, TF0) |

#### 6.11.6.4.4.2 Physical channel parameters

|         |                                      |                              |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble                             | 1024 chips                   |
|         | Codes and time slots                 | SF32 x 2 codes x 1 time slot |
|         | Max. Number of data bits/radio frame | 472 bits                     |
|         | TFCI code word                       | 16 bits                      |
|         | Puncturing limit                     | 0.80                         |

#### 6.11.6.4.4.5 64.8kbps RB for MTCH with 80 ms TTI

##### 6.11.6.4.4.5.1 Transport channel parameters

##### 6.11.6.4.4.5.1.1 Transport channel parameters for 64 kbps PS RAB

|              |                                                     |           |       |
|--------------|-----------------------------------------------------|-----------|-------|
| Higher layer | RAB/signalling RB                                   |           | RAB   |
|              | User of Radio Bearer                                |           | MBMS  |
| RLC          | Logical channel type                                |           | MTCH  |
|              | RLC mode                                            |           | UM    |
|              | Payload sizes, bit                                  |           | 648   |
|              | Max data rate, bps                                  |           | 64800 |
|              | UMD PDU header, bit                                 |           | 8     |
| MAC          | MAC header, bit                                     |           | 8     |
|              | MAC multiplexing                                    |           | N/A   |
| Layer 1      | TrCH type                                           |           | FACH  |
|              | TB sizes, bit                                       |           | 664   |
|              | TFS                                                 | TF0, bits | 0x664 |
|              |                                                     | TF1, bits | 1x664 |
|              |                                                     | TF2, bits | 2x664 |
|              |                                                     | TF3, bits | 3x664 |
|              |                                                     | TF4, bits | 4x664 |
|              |                                                     | TF5, bits | 5x664 |
|              |                                                     | TF6, bits | 6x664 |
|              |                                                     | TF7, bits | 7x664 |
|              |                                                     | TF8, bits | 8x664 |
|              | TTI, ms                                             |           | 80    |
|              | Coding type                                         |           | TC    |
|              | CRC, bit                                            |           | 16    |
|              | Max number of bits/TTI after channel coding         |           | 16344 |
|              | Max number of bits/radio frame before rate matching |           | 2043  |
|              | RM attribute                                        |           | 160   |

##### 6.11.6.4.4.5.1.2 TFCS

|           |                                                           |
|-----------|-----------------------------------------------------------|
| TFCS size | 9                                                         |
| TFCS      | 64 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8 |

#### 6.11.6.4.4.5.2 Physical channel parameters

|         |                                      |                              |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble                             | 512 chips                    |
|         | Codes and time slots                 | SF32 x 8 codes x 1 time slot |
|         | Max. Number of data bits/radio frame | 1936 bits                    |
|         | TFCI code word                       | 16 bits                      |
|         | Puncturing limit                     | 0.92                         |



## 6.11.6.4.4.6 129.6kbps RB for MTCH with 80 ms TTI

## 6.11.6.4.4.6.1 Transport channel parameters

## 6.11.6.4.4.6.1.1 Transport channel parameters for 128 kbps PS RAB

|              |                                                     |            |        |
|--------------|-----------------------------------------------------|------------|--------|
| Higher layer | RAB/signalling RB                                   |            | RAB    |
|              | User of Radio Bearer                                |            | MBMS   |
| RLC          | Logical channel type                                |            | MTCH   |
|              | RLC mode                                            |            | UM     |
|              | Payload sizes, bit                                  |            | 648    |
|              | Max data rate, bps                                  |            | 129600 |
|              | UMD PDU header, bit                                 |            | 8      |
| MAC          | MAC header, bit                                     |            | 8      |
|              | MAC multiplexing                                    |            | N/A    |
| Layer 1      | TrCH type                                           |            | FACH   |
|              | TB sizes, bit                                       |            | 664    |
|              | TFS                                                 | TF0, bits  | 0x664  |
|              |                                                     | TF1, bits  | 1x664  |
|              |                                                     | TF2, bits  | 2x664  |
|              |                                                     | TF3, bits  | 3x664  |
|              |                                                     | TF4, bits  | 4x664  |
|              |                                                     | TF5, bits  | 5x664  |
|              |                                                     | TF6, bits  | 6x664  |
|              |                                                     | TF7, bits  | 7x664  |
|              |                                                     | TF8, bits  | 8x664  |
|              |                                                     | TF9, bits  | 9x664  |
|              |                                                     | TF10, bits | 10x664 |
|              |                                                     | TF11, bits | 11x664 |
|              |                                                     | TF12, bits | 12x664 |
|              |                                                     | TF13, bits | 13x664 |
|              |                                                     | TF14, bits | 14x664 |
|              |                                                     | TF15, bits | 15x664 |
|              |                                                     | TF16, bits | 16x664 |
|              | TTI, ms                                             |            | 80     |
|              | Coding type                                         |            | TC     |
|              | CRC, bit                                            |            | 16     |
|              | Max number of bits/TTI after channel coding         |            | 32679  |
|              | Max number of bits/radio frame before rate matching |            | 4085   |
|              | RM attribute                                        |            | 160    |

## 6.11.6.4.4.6.1.1 TFCS

|           |                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------|
| TFCS size | 17                                                                                                       |
| TFCS      | 128 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

## 6.11.6.4.4.6.2 Physical channel parameters

|         |                                      |                               |
|---------|--------------------------------------|-------------------------------|
| S-CCPCH | Midamble                             | 512 chips                     |
|         | Codes and time slots                 | SF32 x 16 codes x 1 time slot |
|         | Max. Number of data bits/radio frame | 3888 bits                     |
|         | TFCI code word                       | 16 bits                       |
|         | Puncturing limit                     | 0.92                          |

6.11.6.4.4.7 259.2 kbps RB for MTCH with 40 ms TTI

6.11.6.4.4.7.1 Transport channel parameters

6.11.6.4.4.7.1.1 Transport channel parameters for 256 kbps PS RAB

|              |                                                     |            |        |
|--------------|-----------------------------------------------------|------------|--------|
| Higher layer | RAB/signalling RB                                   |            | RAB    |
|              | User of Radio Bearer                                |            | MBMS   |
| RLC          | Logical channel type                                |            | MTCH   |
|              | RLC mode                                            |            | UM     |
|              | Payload sizes, bit                                  |            | 648    |
|              | Max data rate, bps                                  |            | 129600 |
|              | UMD PDU header, bit                                 |            | 8      |
| MAC          | MAC header, bit                                     |            | 8      |
|              | MAC multiplexing                                    |            | N/A    |
| Layer 1      | TrCH type                                           |            | FACH   |
|              | TB sizes, bit                                       |            | 664    |
|              | TFS                                                 | TF0, bits  | 0x664  |
|              |                                                     | TF1, bits  | 1x664  |
|              |                                                     | TF2, bits  | 2x664  |
|              |                                                     | TF3, bits  | 3x664  |
|              |                                                     | TF4, bits  | 4x664  |
|              |                                                     | TF5, bits  | 5x664  |
|              |                                                     | TF6, bits  | 6x664  |
|              |                                                     | TF7, bits  | 7x664  |
|              |                                                     | TF8, bits  | 8x664  |
|              |                                                     | TF9, bits  | 9x664  |
|              |                                                     | TF10, bits | 10x664 |
|              |                                                     | TF11, bits | 11x664 |
|              |                                                     | TF12, bits | 12x664 |
|              |                                                     | TF13, bits | 13x664 |
|              |                                                     | TF14, bits | 14x664 |
|              |                                                     | TF15, bits | 15x664 |
|              |                                                     | TF16, bits | 16x664 |
|              | TTI, ms                                             |            | 40     |
|              | Coding type                                         |            | TC     |
|              | CRC, bit                                            |            | 16     |
|              | Max number of bits/TTI after channel coding         |            | 32679  |
|              | Max number of bits/radio frame before rate matching |            | 8170   |
|              | RM attribute                                        |            | 160    |

6.11.6.4.4.7.1.2 TFCS

|           |                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------|
| TFCS size | 17                                                                                                       |
| TFCS      | 256 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16 |

6.11.6.4.4.7.2 Physical channel parameters

|         |                                      |                             |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble                             | 512 chips                   |
|         | Codes and time slots                 | SF1 x 1 codes x 1 time slot |
|         | Max. Number of data bits/radio frame | 7792 bits                   |
|         | TFCI code word                       | 16 bits                     |
|         | Puncturing limit                     | 0.92                        |

## 6.11.6.4.4.8 7.6 kbps signalling RB for MCCH

## 6.11.6.4.4.8.1 Transport channel parameters

## 6.11.6.4.4.8.1.1 Transport channel parameters for 7.6 kbps signalling RB for MCCH

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | SRB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MCCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 152    |
|              | Max data rate, bps                                  |           | 7600   |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | -      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 160    |
|              | TFS                                                 | TF0, bits | 0x160  |
|              |                                                     | TF1, bits | 1x160  |
|              | TTI, ms                                             |           | 20     |
|              | Coding type                                         |           | CC 1/3 |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 552    |
|              | Max number of bits/radio frame before rate matching |           | 276    |
|              | RM attribute                                        |           | 160    |

## 6.11.6.4.4.8.1.2 TFCS

|           |                    |
|-----------|--------------------|
| TFCS size | 2                  |
| TFCS      | MBMS SRB =TF0, TF1 |

## 6.11.6.4.4.8.2 Physical channel parameters

|         |                                      |  |                              |
|---------|--------------------------------------|--|------------------------------|
| S-CCPCH | Midamble                             |  | 512 chips                    |
|         | Codes and time slots                 |  | SF32 x 1 codes x 1 time slot |
|         | Max. Number of data bits/radio frame |  | 228 bits                     |
|         | TFCl code word                       |  | 16 bits                      |
|         | Puncturing limit                     |  | 0.80                         |

6.11.6.4.4.9 124.4kbps RB for MBSFN MTCH with 80 ms TTI

6.11.6.4.4.9.1 Transport channel parameters

6.11.6.4.4.9.1.1 Transport channel parameters for 124 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 4976   |
|              | Max data rate, bps                                  |           | 124400 |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 9      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 4993   |
|              | TFS                                                 | TF0, bits | 0x4993 |
|              |                                                     | TF1, bits | 1x4993 |
|              |                                                     | TF2, bits | 2x4993 |
|              | TTI, ms                                             |           | 80     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 30078  |
|              | Max number of bits/radio frame before rate matching |           | 3760   |
|              | RM attribute                                        |           | 128    |

6.11.6.4.4.9.1.2 TFCS

|           |                             |
|-----------|-----------------------------|
| TFCS size | 3                           |
| TFCS      | 124 kbps RAB =TF0, TF1, TF2 |

6.11.6.4.4.9.2 Physical channel parameters

|         |                                      |                              |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble                             | 640 chips (burst type 4)     |
|         | Codes and time slots                 | SF32 x 8 codes x 1 time slot |
|         | Modulation                           | QPSK                         |
|         | Max. Number of data bits/radio frame | 2096 bits                    |
|         | TFCI code word                       | (16,5)                       |
|         | Puncturing limit                     | 0.54                         |

6.11.6.4.4.10 320.4kbps RB for MBSFN MTCH with 80 ms TTI

6.11.6.4.4.10.1 Transport channel parameters

6.11.6.4.4.10.1.1 Transport channel parameters for 320 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 4272   |
|              | Max data rate, bps                                  |           | 320400 |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 9      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 4289   |
|              | TFS                                                 | TF0, bits | 0x4289 |
|              |                                                     | TF1, bits | 1x4289 |
|              |                                                     | TF2, bits | 6x4289 |
|              | TTI, ms                                             |           | 80     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 77562  |
|              | Max number of bits/radio frame before rate matching |           | 9696   |
|              | RM attribute                                        |           | 128    |

6.11.6.4.4.10.1.1 TFCS

|           |                             |
|-----------|-----------------------------|
| TFCS size | 3                           |
| TFCS      | 320 kbps RAB =TF0, TF1, TF2 |

6.11.6.4.4.10.2 Physical channel parameters

|         |                                      |                               |
|---------|--------------------------------------|-------------------------------|
| S-CCPCH | Midamble                             | 640 chips (burst type 4)      |
|         | Codes and time slots                 | SF32 x 16 codes x 1 time slot |
|         | Modulation                           | 16QAM                         |
|         | Max. Number of data bits/radio frame | 8432 bits                     |
|         | TFCI code word                       | (16,5)                        |
|         | Puncturing limit                     | 0.86                          |

6.11.6.4.4.11 497.6 kbps RB for MBSFN MTCH with 80 ms TTI

6.11.6.4.4.11.1 Transport channel parameters

6.11.6.4.4.11.1.1 Transport channel parameters for 496 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 4976   |
|              | Max data rate, bps                                  |           | 497600 |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 9      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 4993   |
|              | TFS                                                 | TF0, bits | 0x4993 |
|              |                                                     | TF1, bits | 1x4993 |
|              |                                                     | TF2, bits | 8x4993 |
|              | TTI, ms                                             |           | 80     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 120312 |
|              | Max number of bits/radio frame before rate matching |           | 15039  |
|              | RM attribute                                        |           | 128    |

6.11.6.4.4.11.1.2 TFCS

|           |                             |
|-----------|-----------------------------|
| TFCS size | 3                           |
| TFCS      | 496 kbps RAB =TF0, TF1, TF2 |

6.11.6.4.4.11.2 Physical channel parameters

|         |                                      |                              |
|---------|--------------------------------------|------------------------------|
| S-CCPCH | Midamble                             | 640 chips (burst type 4)     |
|         | Codes and time slots                 | SF1 x 1 codes x 2 time slots |
|         | Modulation                           | QPSK                         |
|         | Max. Number of data bits/radio frame | 16880 bits                   |
|         | TFCI code word                       | (16,5) in first slot only    |
|         | Puncturing limit                     | 1                            |

## 6.11.6.4.4.12 7.2 kbps signalling RB for MBSFN MCCH

## 6.11.6.4.4.12.1 Transport channel parameters

## 6.11.6.4.4.12.1.1 Transport channel parameters for 7.2 kbps signalling RB for MCCH

|              |                                                     |           |      |  |
|--------------|-----------------------------------------------------|-----------|------|--|
| Higher layer | RAB/signalling RB                                   |           | SRB  |  |
|              | User of Radio Bearer                                |           | MBMS |  |
| RLC          | Logical channel type                                |           | MCCH |  |
|              | RLC mode                                            |           | UM   |  |
|              | Payload sizes, bit                                  |           | 72   |  |
|              | Max data rate, bps                                  |           | 7200 |  |
|              | UMD PDU header, bit                                 |           | 8    |  |
| MAC          | MAC header, bit                                     |           | -    |  |
|              | MAC multiplexing                                    |           | N/A  |  |
| Layer 1      | TrCH type                                           |           | FACH |  |
|              | TB sizes, bit                                       |           | 80   |  |
|              | TFS                                                 | TF0, bits | 0x80 |  |
|              |                                                     | TF1, bits | 1x80 |  |
|              |                                                     | TF2, bits | 2x80 |  |
|              |                                                     | TF3, bits | 4x80 |  |
|              | TTI, ms                                             |           | 40   |  |
|              | Coding type                                         |           | TC   |  |
|              | CRC, bit                                            |           | 16   |  |
|              | Max number of bits/TTI after channel coding         |           | 1164 |  |
|              | Max number of bits/radio frame before rate matching |           | 291  |  |
|              | RM attribute                                        |           | 128  |  |

## 6.11.6.4.4.12.1.2 TFCS

|           |                              |
|-----------|------------------------------|
| TFCS size | 4                            |
| TFCS      | MBMS SRB =TF0, TF1, TF2, TF3 |

## 6.11.6.4.4.12.2 Physical channel parameters

|         |                                      |                             |
|---------|--------------------------------------|-----------------------------|
| S-CCPCH | Midamble                             | 640 chips (burst type 4)    |
|         | Codes and time slots                 | SF32 x 1 code x 1 time slot |
|         | Modulation                           | QPSK                        |
|         | Max. Number of data bits/radio frame | 248 bits                    |
|         | TFCI code word                       | (16,5)                      |
|         | Puncturing limit                     | 0.84                        |

## 6.11.6.4.5 Combinations on PRACH

## 6.11.6.4.5.1 SRB for CCCH + SRB for DCCH

## 6.11.6.4.5.1.1 Transport channel parameters

## 6.11.6.4.5.1.1.1 Transport channel parameter for SRB for CCCH, SRB for DCCH

|              |                             |                                |        |        |                         |                        |
|--------------|-----------------------------|--------------------------------|--------|--------|-------------------------|------------------------|
| Higher layer | RAB/signalling RB           | SRB#0                          | SRB#1  | SRB#2  | SRB#3                   | SRB#4                  |
|              | User of Radio Bearer        | RRC                            | RRC    | RRC    | NAS_DT<br>High priority | NAS_DT<br>Low priority |
| RLC          | Logical channel type        | CCCH                           | DCCH   | DCCH   | DCCH                    | DCCH                   |
|              | RLC mode                    | TM                             | UM     | AM     | AM                      | AM                     |
|              | Payload sizes, bit          | 168                            | 136    | 128    | 128                     | 128                    |
|              | Max data rate, bps          | 16 800                         | 13 600 | 12 800 | 12 800                  | 12 800                 |
|              | AMD/UMD/TrD PDU header, bit | 0                              | 8      | 16     | 16                      | 16                     |
| MAC          | MAC header, bit             | 2                              | 26     | 26     | 26                      | 26                     |
|              | MAC multiplexing            | 5 logical channel multiplexing |        |        |                         |                        |

|         |                                                     |           |        |  |  |  |  |
|---------|-----------------------------------------------------|-----------|--------|--|--|--|--|
| Layer 1 | TrCH type                                           |           | RACH   |  |  |  |  |
|         | TB sizes, bit                                       |           | 170    |  |  |  |  |
|         | TFS                                                 | TF0, bits | 1x170  |  |  |  |  |
|         | TTI, ms                                             |           | 10     |  |  |  |  |
|         | Coding type                                         |           | CC 1/2 |  |  |  |  |
|         | CRC, bit                                            |           | 16     |  |  |  |  |
|         | Max number of bits/TTI after channel coding         |           | 388    |  |  |  |  |
|         | Max number of bits/Radio frame before rate matching |           | 388    |  |  |  |  |

## 6.11.6.4.5.1.1.2 TFCS

|           |                             |
|-----------|-----------------------------|
| TFCS size | 1                           |
| TFCS      | SRBs for CCCH/ DCCH = (TF0) |

## 6.11.6.4.5.1.2 Physical channel parameters

|       |                                      |                                         |
|-------|--------------------------------------|-----------------------------------------|
| PRACH | Midamble                             | 1024 chips                              |
|       | Codes and time slots                 | SF16 (alt. SF32) x 1 code x 1 time slot |
|       | Max. Number of data bits/radio frame | 488 bits (alt. 244 bits)                |
|       | Puncturing Limit                     | 1.0 (alt. 0.60)                         |

## 6.11.6.4.5.2 Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

## 6.11.6.4.5.2.1 Transport channel parameters

|              |                                                      |                                |        |        |        |                      |                     |
|--------------|------------------------------------------------------|--------------------------------|--------|--------|--------|----------------------|---------------------|
| Higher layer | RAB/signalling RB                                    | RAB                            | SRB#0  | SRB#1  | SRB#2  | SRB#3                | SRB#4               |
|              | User of Radio Bearer                                 | Interactive/Background RAB     | RRC    | RRC    | RRC    | NAS_DT High priority | NAS_DT Low priority |
| RLC          | Logical channel type                                 | DTCH                           | CCCH   | DCCH   | DCCH   | DCCH                 | DCCH                |
|              | RLC mode                                             | AM                             | TM     | UM     | AM     | AM                   | AM                  |
|              | Payload sizes, bit                                   | 128                            | 168    | 136    | 128    | 128                  | 128                 |
|              | Max data rate, bps                                   | 12 800                         | 16 800 | 13 600 | 12 800 | 12 800               | 12 800              |
|              | AMD/UMD/TrD PDU header, bit                          | 16                             | 0      | 8      | 16     | 16                   | 16                  |
| MAC          | MAC header, bit                                      | 26                             | 2      | 26     | 26     | 26                   | 26                  |
|              | MAC multiplexing                                     | 6 logical channel multiplexing |        |        |        |                      |                     |
| Layer 1      | TrCH type                                            |                                | RACH   |        |        |                      |                     |
|              | TB sizes, bit                                        |                                | 170    |        |        |                      |                     |
|              | TFS                                                  | TF0, bits                      | 1x170  |        |        |                      |                     |
|              | TTI, ms                                              |                                | 10     |        |        |                      |                     |
|              | Coding type                                          |                                | CC 1/2 |        |        |                      |                     |
|              | CRC, bit                                             |                                | 16     |        |        |                      |                     |
|              | Max number of bits/TTI after channel coding          |                                | 388    |        |        |                      |                     |
|              | Max number of bits/ Radio frame before rate matching |                                | 388    |        |        |                      |                     |

## 6.11.6.4.5.2.2 Physical channel parameters

See clause 6.11.6.4.5.1.2.

## 6.11.6.4.5.3 Interactive/Background 12.8 kbps PS RAB + Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

## 6.11.6.4.5.3.1 Transport channel parameters

|              |                      |                            |                            |       |       |       |                  |                 |
|--------------|----------------------|----------------------------|----------------------------|-------|-------|-------|------------------|-----------------|
| Higher layer | RAB/signalling RB    | RAB                        | RAB                        | SRB#0 | SRB#1 | SRB#2 | SRB#3            | SRB#4           |
|              | User of Radio Bearer | Interactive/Background RAB | Interactive/Background RAB | RRC   | RRC   | RRC   | NAS_DT High prio | NAS_DT Low prio |



|         |                                                      |                                |        |        |        |        |        |        |
|---------|------------------------------------------------------|--------------------------------|--------|--------|--------|--------|--------|--------|
| RLC     | Logical channel type                                 | DTCH                           | DTCH   | CCCH   | DCCH   | DCCH   | DCCH   | DCCH   |
|         | RLC mode                                             | AM                             | AM     | TM     | UM     | AM     | AM     | AM     |
|         | Payload sizes, bit                                   | 128                            | 128    | 168    | 136    | 128    | 128    | 128    |
|         | Max data rate, bps                                   | 12 800                         | 12 800 | 16 800 | 13 600 | 12 800 | 12 800 | 12 800 |
|         | AMD/UMD/TrD PDU header, bit                          | 16                             | 16     | 0      | 8      | 16     | 16     | 16     |
| MAC     | MAC header, bit                                      | 26                             | 26     | 2      | 26     | 26     | 26     | 26     |
|         | MAC multiplexing                                     | 7 logical channel multiplexing |        |        |        |        |        |        |
| Layer 1 | TrCH type                                            | RACH                           |        |        |        |        |        |        |
|         | TB sizes, bit                                        | 170                            |        |        |        |        |        |        |
|         | TFS TF0, bits                                        | 1x170                          |        |        |        |        |        |        |
|         | TTI, ms                                              | 10                             |        |        |        |        |        |        |
|         | Coding type                                          | CC 1/2                         |        |        |        |        |        |        |
|         | CRC, bit                                             | 16                             |        |        |        |        |        |        |
|         | Max number of bits/TTI after channel coding          | 388                            |        |        |        |        |        |        |
|         | Max number of bits/ Radio frame before rate matching | 388                            |        |        |        |        |        |        |

#### 6.11.6.4.5.3.2 Physical channel parameters

See clause 6.11.6.4.5.1.2.

#### 6.11.6.4.6 Combinations on DPCH and HS-PDSCH

6.11.6.4.6.1 Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

##### 6.11.6.4.6.1.1 Uplink

See clause 6.11.6.4.1.26.1.

##### 6.11.6.4.6.1.2 Downlink

##### 6.11.6.4.6.1.2.1 Transport channel parameters

##### 6.11.6.4.6.1.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.1.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

|                                                                                                                                                     |                               |                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| Higher layer                                                                                                                                        | RAB/Signalling RB             | RAB                             |
| RLC                                                                                                                                                 | Logical channel type          | DTCH                            |
|                                                                                                                                                     | RLC mode                      | AM                              |
|                                                                                                                                                     | Payload sizes, bit            | 320                             |
|                                                                                                                                                     | Max data rate, bps            | depends on UE category<br>NOTE1 |
|                                                                                                                                                     | AMD PDU header, bit           | 16                              |
| MAC                                                                                                                                                 | MAC-d header, bit             | 0                               |
|                                                                                                                                                     | MAC multiplexing              | N/A                             |
|                                                                                                                                                     | MAC-d PDU size, bit           | 336                             |
|                                                                                                                                                     | MAC-hs header fixed part, bit | 21                              |
| Layer 1                                                                                                                                             | TrCH type                     | HS-DSCH                         |
|                                                                                                                                                     | TTI                           | 10 ms                           |
|                                                                                                                                                     | Coding type                   | TC                              |
|                                                                                                                                                     | CRC, bit                      | 24                              |
| NOTE: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). |                               |                                 |

##### 6.11.6.4.6.1.2.1.2 Transport channel parameters for DCH

##### 6.11.6.4.6.1.2.1.2.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1

## 6.11.6.4.6.1.2.1.2.2 TFCS

See clause 6.11.6.4.1.2.2.1.2.

## 6.11.6.4.6.1.2.2 Physical channel parameters

## 6.11.6.4.6.1.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.2.2.2.

## 6.10.3.4.6.1.2.2.2 Physical channel parameters on HS-PDSCH

Physical parameters common for all UE physical layer categories

|          |          |            |
|----------|----------|------------|
| HS-PDSCH | Midamble | 1024 chips |
|----------|----------|------------|

UE HS-DSCH Physical Layer category 1:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 2                                 |
|          | Max Data Rate                               | 1.2 Mbps                          |

UE HS-DSCH Physical Layer category 2:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 12                                |
|          | Max Data Rate                               | 1.2 Mbps                          |

UE HS-DSCH Physical Layer category 3:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 4                                 |
|          | Max Data Rate                               | 2.4 Mbps                          |

UE HS-DSCH Physical Layer category 4:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 12                                |
|          | Max Data Rate                               | 2.4 Mbps                          |

UE HS-DSCH Physical Layer category 5:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 6                                 |
|          | Max Data Rate                               | 3.6 Mbps                          |

UE HS-DSCH Physical Layer category 6:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 12                                |
|          | Max Data Rate                               | 3.6 Mbps                          |

UE HS-DSCH Physical Layer category 7:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 12                                |
|          | Max Data Rate                               | 5.3 Mbps                          |

UE HS-DSCH Physical Layer category 8:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 12                                |
|          | Max Data Rate                               | 7.3 Mbps                          |

UE HS-DSCH Physical Layer category 9:

|          |                                             |                                   |
|----------|---------------------------------------------|-----------------------------------|
| HS-PDSCH | Number of processes                         | 3                                 |
|          | Process memory size                         | Split equally among all processes |
|          | Maximum number of HS-DSCH timeslots per TTI | 12                                |
|          | Max Data Rate                               | 10.2 Mbps                         |

6.11.6.4.6.2 Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.2.1 Uplink

See clause 6.11.6.4.1.28.1.

6.11.6.4.6.2.2 Downlink

6.11.6.4.6.2.2.1 Transport channel parameters

6.11.6.4.6.2.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.2.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.2.2.1.2 Transport channel parameters for DCH

6.11.6.4.6.2.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.2.2.1.2.2 TFCS

See clause 6.11.6.4.1.2.2.1.2.

6.11.6.4.6.2.2.2 Physical channel parameters

6.11.6.4.6.2.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.2.2.2..

6.11.6.4.6.2.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.3 Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.3.1 Uplink

See clause 6.11.6.4.1.34.1.

6.11.6.4.6.3.2 Downlink

6.11.6.4.6.3.2.1 Transport channel parameters

6.11.6.4.6.3.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.3.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.3.2.1.2 Transport channel parameters for DCH

6.11.6.4.6.3.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.3.2.1.2.2 TFCS

See clause 6.11.6.4.1.2.2.1.2.

6.11.6.4.6.3.2.2 Physical channel parameters

6.11.6.4.6.3.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.2.2.2..

6.11.6.4.6.3.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.4.1 Uplink

6.11.6.4.6.4.1.1 Transport channel parameters

6.11.6.4.6.4.1.1.1 Transport channel parameters for Conversational / Speech / UL12.2kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

6.11.6.4.6.4.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.11.6.4.1.34.1.1.1.

6.11.6.4.6.4.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

## 6.11.6.4.6.4.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 36 (alt. 54)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB , DCCH)=<br>(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),<br>(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1)<br>(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),<br>(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),<br>(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),<br>(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),<br>(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),<br>(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),<br>(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),<br>(TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),<br>(TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),<br>(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),<br>(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),<br>(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),<br>(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),<br>(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),<br>(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),<br>(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),<br>(TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),<br>(TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1)) |

## 6.11.6.4.6.4.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                   |
|             | Codes and time slots                 | SF4 x 1 code x 3 time slots |
|             | Max. Number of data bits/radio frame | 6 480 bits                  |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.48                        |

## 6.11.6.4.6.4.2 Downlink

## 6.11.6.4.6.4.2.1 Transport channel parameters

## 6.11.6.4.6.4.2.1.1 Transport channel parameters for HS-DSCH

## 6.11.6.4.6.4.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

## 6.11.6.4.6.4.2.1.2 Transport channel parameters for DCH

## 6.11.6.4.6.4.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

## 6.11.6.4.6.4.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.6.4.2.1.2.3 TFCS

See clause 6.11.6.4.1.4.2.1.3.

## 6.11.6.4.6.4.2.2 Physical channel parameters

## 6.11.6.4.6.4.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.4.2.2.

## 6.11.6.4.6.4.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

## 6.11.6.4.6.5 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.6.5.1 Uplink

See clause 6.11.6.4.1.40.1.

## 6.11.6.4.6.5.2 Downlink

## 6.11.6.4.6.5.2.1 Transport channel parameters

## 6.11.6.4.6.5.2.1.1 Transport channel parameters for HS-DSCH

## 6.11.6.4.6.5.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

## 6.11.6.4.6.5.2.1.2 Transport channel parameters for DCH

## 6.11.6.4.6.5.2.1.2.1 Transport channel parameters for Conversational / Speech / UL12.2kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

## 6.11.6.4.6.5.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.6.5.2.1.2.3 TFCS

See clause 6.11.6.4.1.4.2.1.3.

## 6.11.6.4.6.5.2.2 Physical channel parameters

## 6.11.6.4.6.5.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.4.2.2.

## 6.11.6.4.6.5.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

## 6.11.6.4.6.6 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.6.6.1 Uplink

## 6.11.6.4.6.6.1.1 Transport channel parameters

## 6.11.6.4.6.6.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.1.1.1.

#### 6.11.6.4.6.1.1.2 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.11.6.4.1.34.1.1.1.

#### 6.11.6.4.6.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.6.1.1.4 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 24 (alt. 36)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| TFCS      | (64 kbps RAB, 384 kbps RAB , DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0),<br>(TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0),<br>(TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF5, TF0), (TF1, TF5, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1),<br>(TF0, TF2, TF1), (TF1, TF2, TF1), (TF0, TF3, TF1), (TF1, TF3, TF1),<br>(TF0, TF4, TF1), (TF1, TF4, TF1), (TF0, TF5, TF1), (TF1, TF5, TF1)<br>(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0),<br>(TF0, TF2, TF0), (TF1, TF2, TF0), (TF0, TF3, TF0), (TF1, TF3, TF0),<br>(TF0, TF4, TF0), (TF1, TF4, TF0), (TF0, TF5, TF0), (TF1, TF5, TF0),<br>(TF0, TF6, TF0), (TF1, TF6, TF0), (TF0, TF7, TF0), (TF1, TF7, TF0),<br>(TF0, TF8, TF0), (TF1, TF8, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF0, TF2, TF1), (TF1, TF2, TF1),<br>(TF0, TF3, TF1), (TF1, TF3, TF1), (TF0, TF4, TF1), (TF1, TF4, TF1),<br>(TF0, TF5, TF1), (TF1, TF5, TF1), (TF0, TF6, TF1), (TF1, TF6, TF1),<br>(TF0, TF7, TF1), (TF1, TF7, TF1), (TF0, TF8, TF1), (TF1, TF8, TF1)) |

#### 6.11.6.4.6.1.2 Physical channel parameters

|             |                                      |                             |
|-------------|--------------------------------------|-----------------------------|
| DPCH Uplink | Midamble                             | 512 chips                   |
|             | Codes and time slots                 | SF4 x 1 code x 3 time slots |
|             | Max. Number of data bits/radio frame | 6 480 bits                  |
|             | TFCI code word                       | 16 bits                     |
|             | TPC                                  | 2 bits                      |
|             | Puncturing Limit                     | 0.40                        |

#### 6.11.6.4.6.6.1 Downlink

#### 6.11.6.4.6.6.2.1 Transport channel parameters

#### 6.11.6.4.6.6.2.1.1 Transport channel parameters for HS-DSCH

#### 6.11.6.4.6.6.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

#### 6.11.6.4.6.6.2.1.1 Transport channel parameters for DCH

#### 6.11.6.4.6.6.2.1.2.1 Transport channel parameters for Conversational / unknown/ DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

#### 6.11.6.4.6.6.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

#### 6.11.6.4.6.6.2.1.2.3 TFCS

See clause 6.11.6.4.1.13.2.1.3.

6.11.6.4.6.2.2 Physical channel parameters

6.11.6.4.6.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.4.2.2.

6.11.6.4.6.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.7 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.7.1 Uplink

See clause 6.11.6.4.1.57.1.

6.11.6.4.6.7.2 Downlink

6.11.6.4.6.7.2.1 Transport channel parameters

6.11.6.4.6.7.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.7.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.7.2.1.1 Transport channel parameters for DCH

6.11.6.4.6.7.2.1.2.1 Transport channel parameters for Conversational / unknown/ DL:64 kbps / CS RAB

See clause 6.11.6.4.1.13.2.1.1.

6.11.6.4.6.7.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.7.2.1.2.3 TFCS

See clause 6.11.6.4.1.13.2.1.3.

6.11.6.4.6.7.2.2 Physical channel parameters

6.11.6.4.6.7.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.4.2.2.

6.11.6.4.6.7.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.8 Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.8.1 Uplink

6.11.6.4.6.8.1.1 Transport channel parameters

6.11.6.4.6.8.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB + UL:384 kbps / PS RAB

| Higher layer | RAB/Signalling RB    | RAB  | RAB  |
|--------------|----------------------|------|------|
| RLC          | Logical channel type | DTCH | DTCH |
|              | RLC mode             | AM   | AM   |
|              | Payload sizes, bit   | 320  | 320  |



|         |                                                             |                                |         |
|---------|-------------------------------------------------------------|--------------------------------|---------|
|         | Max data rate, bps                                          | 384 000                        | 384 000 |
|         | AMD PDU header, bit                                         | 16                             | 16      |
| MAC     | MAC header, bit                                             | 4                              | 4       |
|         | MAC multiplexing                                            | 2 logical channel multiplexing |         |
| Layer 1 | TrCH type                                                   | DCH                            |         |
|         | TB sizes, bit                                               | 340                            |         |
|         | TFS                                                         | TF0, bits                      | 0x340   |
|         |                                                             | TF1, bits                      | 1x340   |
|         |                                                             | TF2, bits                      | 2x340   |
|         |                                                             | TF3, bits                      | 4x340   |
|         |                                                             | TF4, bits                      | 8x340   |
|         |                                                             | TF5, bits                      | 12x340  |
|         | TTI, ms                                                     | 10                             |         |
|         | Coding type                                                 | TC                             |         |
|         | CRC, bit                                                    | 16                             |         |
|         | Max number of bits/TTI after channel coding                 | 12 828                         |         |
|         | Uplink: Max number of bits/radio frame before rate matching | 12 828                         |         |
|         | RM attribute                                                | 110-180                        |         |

#### 6.11.6.4.6.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

#### 6.11.6.4.6.8.1.1.3 TFCS

|           |                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 12                                                                                                                                                                                        |
| TFCS      | (384 kbps RAB + 384 kbps RAB, DCCH)=<br>(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),<br>(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) |

#### 6.11.6.4.6.8.1.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                  |
|               | Codes and time slots                 | SF4 x 1 codes x 3 time slot |
|               | Max. Number of data bits/radio frame | 6480 bits                   |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.48                        |

#### 6.11.6.4.6.8.2 Downlink

##### 6.11.6.4.6.8.2.1 Transport channel parameters

##### 6.11.6.4.6.8.2.1.1 Transport channel parameters for HS-DSCH

##### 6.11.6.4.6.8.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

##### 6.11.6.4.6.8.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

##### 6.11.6.4.6.8.2.1.2 Transport channel parameters for DCH

##### 6.11.6.4.6.8.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

##### 6.11.6.4.6.8.2.1.2.2 TFCS

See clause 6.11.6.4.1.2.2.1.2.

6.11.6.4.6.8.2.2 Physical channel parameters

6.11.6.4.6.8.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.2.2.2.

6.11.6.4.6.8.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.9 Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.9.1 Uplink

See clause 6.11.6.4.1.57.1.

6.11.6.4.6.9.2 Downlink

6.11.6.4.6.9.2.1 Transport channel parameters

6.11.6.4.6.9.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.9.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.9.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.9.2.1.2 Transport channel parameters for DCH

6.11.6.4.6.9.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.9.2.1.2.2 TFCS

See clause 6.11.6.4.1.2.2.1.2.

6.11.6.4.6.9.2.2 Physical channel parameters

6.11.6.4.6.9.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.2.2.2.

6.11.6.4.6.9.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.6.10 Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.6.4.6.10.1 Uplink

6.11.6.4.6.10.1.1 Transport channel parameters

6.11.6.4.6.10.1.1.1 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

| Higher Layer | RAB/Signalling RB                                           |           | RAB     |
|--------------|-------------------------------------------------------------|-----------|---------|
| RLC          | Logical channel type                                        |           | DTCH    |
|              | RLC mode                                                    |           | AM      |
|              | Payload sizes, bit                                          |           | 640     |
|              | Max data rate, bps                                          |           | 128000  |
|              | AM PDU header, bit                                          |           | 16      |
| MAC          | MAC header, bit                                             |           | 0       |
|              | MAC multiplexing                                            |           | N/A     |
| Layer 1      | TrCH type                                                   |           | DCH     |
|              | TB sizes, bit                                               |           | 656     |
|              | TFS                                                         | TF0, bits | 0x656   |
|              |                                                             | TF1, bits | 1x656   |
|              |                                                             | TF2, bits | 2x656   |
|              |                                                             | TF3, bits | 4x656   |
|              | TTI, ms                                                     |           | 20      |
|              | Coding type                                                 |           | TC      |
|              | CRC, bit                                                    |           | 16      |
|              | Max number of bits/TTI after channel coding                 |           | 8076    |
|              | Uplink: Max number of bits/radio frame before rate matching |           | 4038    |
|              | RM attribute                                                |           | 125-165 |

6.11.6.4.6.10.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.11.6.4.1.28.1.1.1.

6.11.6.4.6.10.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.6.10.1.1.3 TFCS

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS size | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TFCS      | (128 kbps RAB, 128 kbps RAB, DCCH)=<br>(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0),<br>(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0),<br>(TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0),<br>(TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0),<br>(TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0),<br>(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1),<br>(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1),<br>(TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1),<br>(TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1),<br>(TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1) |

6.11.6.4.6.10.1.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                  |
|               | Codes and time slots                 | SF4 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 4272 bits                   |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.48                        |

## 6.11.6.4.6.10.2 Downlink

## 6.11.6.4.6.10.2.1 Transport channel parameters

## 6.11.6.4.6.10.2.1.1 Transport channel parameters for HS-DSCH

## 6.11.6.4.6.10.2.1.1.1 MAC-d flow parameters for Streaming / unknown / DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB

| Higher Layer                                                                                                                              | RAB/Signalling RB             | RAB                             |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| RLC                                                                                                                                       | Logical channel type          | DTCH                            |
|                                                                                                                                           | RLC mode                      | AM                              |
|                                                                                                                                           | Payload sizes, bit            | 640                             |
|                                                                                                                                           | Max data rate, bps            | depends on UE category<br>NOTE1 |
|                                                                                                                                           | AMD PDU header, bit           | 16                              |
| MAC                                                                                                                                       | MAC-d header, bit             | 0                               |
|                                                                                                                                           | MAC multiplexing              | N/A                             |
|                                                                                                                                           | MAC-d PDU size, bit           | 656                             |
|                                                                                                                                           | MAC-hs header fixed part, bit | 21                              |
| Layer 1                                                                                                                                   | TrCH type                     | HS-DSCH                         |
|                                                                                                                                           | TTI                           | 10 ms                           |
|                                                                                                                                           | Coding type                   | TC                              |
|                                                                                                                                           | CRC, bit                      | 24                              |
| NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]). |                               |                                 |

## 6.11.6.4.6.10.2.1.1.2 MAC-d flow parameters for Streaming / unknown / DL: [max bit rate depending on UE category] kbps / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

## 6.11.6.4.6.10.2.1.2 Transport channel parameters for DCH

## 6.11.6.4.6.10.2.1.2.1 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

## 6.11.6.4.6.10.2.1.2.2 TFCS

See clause 6.11.6.4.1.2.2.1.2.

## 6.11.6.4.6.10.2.2 Physical channel parameters

## 6.11.6.4.6.10.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.2.2.2.

## 6.11.6.4.6.10.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

## 6.11.6.4.6.11 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

## 6.11.6.4.6.11.1 Uplink

## 6.11.6.4.6.11.1.1 Transport channel parameters

## 6.11.6.4.6.11.1.1.1 Transport channel parameters for Conversational / Speech / UL12.2kbps / CS RAB

See clause 6.11.6.4.1.4.1.1.1.

### 6.11.6.4.6.11.1.1.2 Transport channel parameters for Streaming / unknown / UL:128 kbps / PS RAB

See clause 6.11.6.4.6.10.1.1.1.

### 6.11.6.4.6.11.1.1.3 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.11.6.4.1.28.1.1.1.

### 6.11.6.4.6.11.1.1.4 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

### 6.11.6.4.6.11.1.1.5 TFCS

| TFCS size | 120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFCS      | (RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, 128 kbps RAB, DCCH)=<br>(TF0,TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0,TF0),<br>(TF0,TF0,TF0,TF1,TF0,TF0), (TF1,TF0,TF0,TF1,TF0,TF0), (TF2,TF1,TF1,TF1,TF0,TF0),<br>(TF0,TF0,TF0,TF2,TF0,TF0), (TF1,TF0,TF0,TF2,TF0,TF0), (TF2,TF1,TF1,TF2,TF0,TF0),<br>(TF0,TF0,TF0,TF3,TF0,TF0), (TF1,TF0,TF0,TF3,TF0,TF0), (TF2,TF1,TF1,TF3,TF0,TF0),<br>(TF0,TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF0,TF1,TF0),<br>(TF0,TF0,TF0,TF1,TF1,TF0), (TF1,TF0,TF0,TF1,TF1,TF0), (TF2,TF1,TF1,TF1,TF1,TF0),<br>(TF0,TF0,TF0,TF2,TF1,TF0), (TF1,TF0,TF0,TF2,TF1,TF0), (TF2,TF1,TF1,TF2,TF1,TF0),<br>(TF0,TF0,TF0,TF3,TF1,TF0), (TF1,TF0,TF0,TF3,TF1,TF0), (TF2,TF1,TF1,TF3,TF1,TF0),<br>(TF0,TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF0,TF2,TF0),<br>(TF0,TF0,TF0,TF1,TF2,TF0), (TF1,TF0,TF0,TF1,TF2,TF0), (TF2,TF1,TF1,TF1,TF2,TF0),<br>(TF0,TF0,TF0,TF2,TF2,TF0), (TF1,TF0,TF0,TF2,TF2,TF0), (TF2,TF1,TF1,TF2,TF2,TF0),<br>(TF0,TF0,TF0,TF3,TF2,TF0), (TF1,TF0,TF0,TF3,TF2,TF0), (TF2,TF1,TF1,TF3,TF2,TF0),<br>(TF0,TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF0,TF3,TF0), (TF2,TF1,TF1,TF0,TF3,TF0),<br>(TF0,TF0,TF0,TF1,TF3,TF0), (TF1,TF0,TF0,TF1,TF3,TF0), (TF2,TF1,TF1,TF1,TF3,TF0),<br>(TF0,TF0,TF0,TF2,TF3,TF0), (TF1,TF0,TF0,TF2,TF3,TF0), (TF2,TF1,TF1,TF2,TF3,TF0),<br>(TF0,TF0,TF0,TF3,TF3,TF0), (TF1,TF0,TF0,TF3,TF3,TF0), (TF2,TF1,TF1,TF3,TF3,TF0),<br>(TF0,TF0,TF0,TF1,TF4,TF0), (TF1,TF0,TF0,TF1,TF4,TF0), (TF2,TF1,TF1,TF1,TF4,TF0),<br>(TF0,TF0,TF0,TF2,TF4,TF0), (TF1,TF0,TF0,TF2,TF4,TF0), (TF2,TF1,TF1,TF2,TF4,TF0),<br>(TF0,TF0,TF0,TF3,TF4,TF0), (TF1,TF0,TF0,TF3,TF4,TF0), (TF2,TF1,TF1,TF3,TF4,TF0),<br>(TF0,TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF0,TF1),<br>(TF0,TF0,TF0,TF1,TF0,TF1), (TF1,TF0,TF0,TF1,TF0,TF1), (TF2,TF1,TF1,TF1,TF0,TF1),<br>(TF0,TF0,TF0,TF2,TF0,TF1), (TF1,TF0,TF0,TF2,TF0,TF1), (TF2,TF1,TF1,TF2,TF0,TF1),<br>(TF0,TF0,TF0,TF3,TF0,TF1), (TF1,TF0,TF0,TF3,TF0,TF1), (TF2,TF1,TF1,TF3,TF0,TF1),<br>(TF0,TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF0,TF1,TF1),<br>(TF0,TF0,TF0,TF1,TF1,TF1), (TF1,TF0,TF0,TF1,TF1,TF1), (TF2,TF1,TF1,TF1,TF1,TF1),<br>(TF0,TF0,TF0,TF2,TF1,TF1), (TF1,TF0,TF0,TF2,TF1,TF1), (TF2,TF1,TF1,TF2,TF1,TF1),<br>(TF0,TF0,TF0,TF3,TF1,TF1), (TF1,TF0,TF0,TF3,TF1,TF1), (TF2,TF1,TF1,TF3,TF1,TF1),<br>(TF0,TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF0,TF2,TF1),<br>(TF0,TF0,TF0,TF1,TF2,TF1), (TF1,TF0,TF0,TF1,TF2,TF1), (TF2,TF1,TF1,TF1,TF2,TF1),<br>(TF0,TF0,TF0,TF2,TF2,TF1), (TF1,TF0,TF0,TF2,TF2,TF1), (TF2,TF1,TF1,TF2,TF2,TF1),<br>(TF0,TF0,TF0,TF3,TF2,TF1), (TF1,TF0,TF0,TF3,TF2,TF1), (TF2,TF1,TF1,TF3,TF2,TF1),<br>(TF0,TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF0,TF3,TF1), (TF2,TF1,TF1,TF0,TF3,TF1),<br>(TF0,TF0,TF0,TF1,TF3,TF1), (TF1,TF0,TF0,TF1,TF3,TF1), (TF2,TF1,TF1,TF1,TF3,TF1),<br>(TF0,TF0,TF0,TF2,TF3,TF1), (TF1,TF0,TF0,TF2,TF3,TF1), (TF2,TF1,TF1,TF2,TF3,TF1),<br>(TF0,TF0,TF0,TF3,TF3,TF1), (TF1,TF0,TF0,TF3,TF3,TF1), (TF2,TF1,TF1,TF3,TF3,TF1),<br>(TF0,TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF0,TF4,TF1), (TF2,TF1,TF1,TF0,TF4,TF1),<br>(TF0,TF0,TF0,TF1,TF4,TF1), (TF1,TF0,TF0,TF1,TF4,TF1), (TF2,TF1,TF1,TF1,TF4,TF1),<br>(TF0,TF0,TF0,TF2,TF4,TF1), (TF1,TF0,TF0,TF2,TF4,TF1), (TF2,TF1,TF1,TF2,TF4,TF1),<br>(TF0,TF0,TF0,TF3,TF4,TF1), (TF1,TF0,TF0,TF3,TF4,TF1), (TF2,TF1,TF1,TF3,TF4,TF1) |

### 6.11.6.4.6.11.1.2 Physical channel parameters

|               |                                      |                             |
|---------------|--------------------------------------|-----------------------------|
| DPCH Downlink | Midamble                             | 1024 chips                  |
|               | Codes and time slots                 | SF4 x 2 codes x 1 time slot |
|               | Max. Number of data bits/radio frame | 4272 bits                   |
|               | TFCI code word                       | 16 bits                     |
|               | Puncturing limit                     | 0.44                        |

6.11.6.4.6.11.2 Downlink

6.11.6.4.6.11.2.1 Transport channel parameters

6.11.6.4.6.11.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.6.11.2.1.1.1 MAC-d flow parameters for Streaming / unknown / DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB

See clause 6.11.6.4.6.10.2.1.1.1.

6.11.6.4.6.11.2.1.1.2 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.6.11.2.1.2 Transport channel parameters for DCH

6.11.6.4.6.11.2.1.2.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.11.6.4.1.4.2.1.1.

6.11.6.4.6.11.2.1.2.2 Transport channel parameters for DL: 3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.2.1.1.

6.11.6.4.6.11.2.1.2.3 TFCS

See clause 6.11.6.4.1.4.2.1.3.

6.11.6.4.6.11.2.2 Physical channel parameters

6.11.6.4.6.11.2.2.1 Physical channel parameters on DPCH

See clause 6.11.6.4.1.4.2.2.

6.11.6.4.6.11.2.2.2 Physical channel parameters on HS-PDSCH

See clause 6.11.6.4.6.1.2.2.2.

6.11.6.4.7 Combinations on HS-PDSCH and E-PUCH

6.11.6.4.7.1 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH

6.11.6.4.7.1.1 Uplink

6.11.6.4.7.1.1.1 Transport channel parameters

6.11.6.4.7.1.1.1.1 Transport channel parameters for E-DCH

6.11.6.4.7.1.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB

|              |                                 |                                |
|--------------|---------------------------------|--------------------------------|
| Higher layer | RAB/Signalling RB               | RAB                            |
| RLC          | Logical channel type            | DTCH                           |
|              | RLC mode                        | AM                             |
|              | Payload sizes, bit              | 320                            |
|              | Max data rate, bps              | Depends on UE category and TTI |
|              | AMD PDU header, bit             | 16                             |
| MAC          | MAC multiplexing                | N/A                            |
|              | MAC-d PDU size, bit             | 336                            |
|              | MAC-e/es header fixed part, bit | 18                             |
| Layer 1      | TrCH type                       | E-DCH                          |
|              | TTI                             | 10ms                           |
|              | Coding type                     | TC                             |
|              | CRC, bit                        | 24                             |

6.11.6.4.7.1.1.1.2 Transport channel parameters for DCH

6.11.6.4.7.1.1.1.2.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.11.6.4.1.2.1.1.1.

6.11.6.4.7.1.1.2 Physical channel parameters

6.11.6.4.7.1.1.2.1 Physical channel parameters on E-PUCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE E-DCH Physical Layer category 1:

|        |                     |            |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4          |
|        | Max Data Rate       | 1.7360Mbps |

UE E-DCH Physical Layer category 2:

|        |                     |            |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4          |
|        | Max Data Rate       | 3.4752Mbps |

UE E-DCH Physical Layer category 3:

|        |                     |            |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4          |
|        | Max Data Rate       | 5.2416Mbps |

UE E-DCH Physical Layer category 4:

|        |                     |            |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4          |
|        | Max Data Rate       | 6.9536Mbps |

UE E-DCH Physical Layer category 5:

|        |                     |            |
|--------|---------------------|------------|
| E-PUCH | Number of processes | 4          |
|        | Max Data Rate       | 8.7200Mbps |

UE E-DCH Physical Layer category 6:

|        |                     |             |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4           |
|        | Max Data Rate       | 13.9104Mbps |

UE E-DCH Physical Layer category 7:

|        |                     |             |
|--------|---------------------|-------------|
| E-PUCH | Number of processes | 4           |
|        | Max Data Rate       | 20.9760Mbps |

6.11.6.4.7.1.1.2.2 Physical channel parameters for DPCH

See clause 6.11.6.4.1.2.1.2

6.11.6.4.7.1.2 Downlink

See clause 6.11.6.4.6.1.2.

6.11.6.4.7.3 Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH

6.11.6.4.7.3.1 Uplink

See clause 6.11.6.4.7.1.1.

6.11.6.4.7.3.1.2 Physical channel parameters

6.11.6.4.7.3.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.6.4.7.1.1.2.1.

6.11.6.4.7.3.2 Downlink

6.11.6.4.7.3.2.1 Transport channel parameters

6.11.6.4.7.3.2.1.1 Transport channel parameters for HS-DSCH

6.11.6.4.7.3.2.1.1.1 MAC-d flow#1 parameters for Streaming or interactive or background / DL: [max bit rate depending on UE category] / PS RAB

See clause 6.11.6.4.6.1.2.1.1.1.

6.11.6.4.7.3.2.1.1.2 MAC-d flow#2 parameters for DL: [max bit rate depending on UE category] SRBs for HS-DSCH

| Higher layer | RAB/Signalling RB                                                                                                                             | SRB#1                          | SRB#2 | SRB#3 | SRB#4 |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------|-------|-------|
| RLC          | Logical channel type                                                                                                                          | DCCH                           | DCCH  | DCCH  | DCCH  |
|              | RLC mode                                                                                                                                      | UM                             | AM    | AM    | AM    |
|              | Payload sizes, bit                                                                                                                            | 136                            | 128   | 128   | 128   |
|              | Max data rate, bps                                                                                                                            | Depends on UE category (NOTE)  |       |       |       |
|              | AMD PDU header, bit                                                                                                                           | 8                              | 16    | 16    | 16    |
| MAC          | MAC-d header, bit                                                                                                                             | 4                              | 4     | 4     | 4     |
|              | MAC multiplexing                                                                                                                              | 4 logical channel multiplexing |       |       |       |
|              | MAC-d PDU size, bit                                                                                                                           | 148                            |       |       |       |
|              | MAC-hs header fixed part, bit                                                                                                                 | 21                             |       |       |       |
| Layer 1      | TrCH type                                                                                                                                     | HS-DSCH                        |       |       |       |
|              | TTI                                                                                                                                           | 10 ms                          |       |       |       |
|              | Coding type                                                                                                                                   | TC                             |       |       |       |
|              | CRC, bit                                                                                                                                      | 24                             |       |       |       |
| NOTE:        | The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see 3GPP TS 25.321 [38]). |                                |       |       |       |

6.11.6.4.7.3.2.2 Physical channel parameters

6.11.6.4.7.3.2.2.1 Physical channel parameters on HS-PDSCH.

See clause 6.11.6.4.6.1.2.2.2.



- 6.11.6.4.7.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.11.6.4.7.4.1 Uplink
- 6.11.6.4.7.4.1.1 Transport channel parameters
- 6.11.6.4.7.4.1.1.1 Transport channel parameters for E-DCH
- 6.11.6.4.7.4.1.1.1.1 MAC-d flow parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB
- See clause 6.11.6.4.7.1.1.1.1.1.
- 6.11.6.4.7.4.1.1.2 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB
- See clause 6.11.6.4.1.4.1.1.1.
- 6.11.6.4.7.4.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH
- See clause 6.11.6.4.1.2.1.1.1.
- 6.11.6.4.7.4.1.1.4 TFCS
- See clause 6.11.6.4.1.4.1.1.3.
- 6.11.6.4.7.4.1.2 Physical channel parameters
- 6.11.6.4.7.4.1.2.1 Physical channel parameters on E-PUCH
- See clause 6.11.6.4.7.1.1.2.1.
- 6.11.6.4.7.4.1.2.2 Physical channel parameters on DCH
- See clause 6.11.6.4.1.4.1.2.
- 6.11.6.4.7.4.2 Downlink
- See clause 6.11.6.4.6.3.2.
- 6.11.6.4.7.5 Streaming or interactive or background / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH
- 6.11.6.4.7.5.1 Uplink
- 6.11.6.4.7.5.1.1 Transport channel parameters
- 6.11.6.4.7.5.1.1.1 Transport channel parameters for E-DCH
- MAC-e multiplexing between all MAC-d flows in the same MAC-e PDU shall be configured.
- 6.11.6.4.7.5.1.1.1.1 MAC-d flow #1 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB
- See clause 6.11.6.4.7.1.1.1.1.1.
- 6.11.6.4.7.5.1.1.1.2 MAC-d flow #2 parameters for Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] / PS RAB
- See clause 6.11.6.4.7.1.1.1.1.1.
- 6.11.6.4.7.5.1.1.1.3 MAC-d flow #3 parameters for UL: [max bit rate depending on UE category and TTI] SRBs for E-DCH

See clause 6.11.6.4.7.2.1.1.1.2.

6.11.6.4.7.5.1.2 Physical channel parameters

6.11.6.4.7.5.1.2.1 Physical channel parameters on E-PUCH

See clause 6.11.6.4.7.1.1.2.1.

6.11.6.4.7.5.2 Downlink

See clause 6.11.6.4.6.3.2.

## 6.11.7 Reference Radio Bearer configurations used in Radio Bearer testing for 3.84 Mcps TDD IMB

### 6.11.7.1 Combinations of RABs and Signalling RBs

In the present document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

#### Combinations on SCCPCH

- 1) 7.6 kbps signalling RB for MBSFN MCCH with 40ms TTI

#### Combinations on SCCPCH Type 2

- 1) 124.4kbps RB for MBSFN MTCH with 80 ms TTI
- 2) 320.4kbps RB for MBSFN MTCH with 80 ms TTI
- 3) 497.6kbps RB for MBSFN MTCH with 80 ms TTI

### 6.11.7.2 Typical radio parameter sets

#### 6.11.7.2.1 Combination on SCCPCH

6.11.7.2.1.1 7.6 kbps signalling RB for MBSFN MCCH with 40ms TTI

6.11.7.2.1.1.1 Transport channel parameters

6.11.7.2.1.1.1.1 Transport channel parameters for 7.6 kbps signalling RB for MCCH

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | SRB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MCCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 152    |
|              | Max data rate, bps                                  |           | 7600   |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | -      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 80     |
|              | TFS                                                 | TF0, bits | 0x160  |
|              |                                                     | TF1, bits | 1x160  |
|              |                                                     | TF2, bits | 2x160  |
|              | TTI, ms                                             |           | 40     |
|              | Coding type                                         |           | CC 1/3 |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 1080   |
|              | Max number of bits/radio frame before rate matching |           | 270    |
|              | RM attribute                                        |           | 128    |

## 6.11.7.2.1.1.2 TFCS

|           |                         |
|-----------|-------------------------|
| TFCS size | 3                       |
| TFCS      | MBMS SRB =TF0, TF1, TF2 |

## 6.11.7.2.1.1.2 Physical channel parameters

|         |                           |          |
|---------|---------------------------|----------|
| S-CCPCH | DTX position              | Flexible |
|         | Spreading factor          | 256      |
|         | Number of codes           | 1        |
|         | Number of data bits/slot  | 16       |
|         | Number of data bits/frame | 240      |
|         | Modulation                | QPSK     |
|         | Slot Format #             | Format 1 |

## 6.11.7.2.2 Combinations on SCCPCH Type 2

## 6.11.7.2.2.1 124.4kbps RB for MBSFN MTCH with 80 ms TTI

## 6.11.7.2.2.1.1 Transport channel parameters

## 6.11.7.2.2.1.1.1 Transport channel parameters for 124.4 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 4976   |
|              | Max data rate, bps                                  |           | 124400 |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 8      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 4992   |
|              | TFS                                                 | TF0, bits | 0x4992 |
|              |                                                     | TF1, bits | 1x4992 |
|              |                                                     | TF2, bits | 2x4992 |
|              | TTI, ms                                             |           | 80     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 30072  |
|              | Max number of bits/radio frame before rate matching |           | 3759   |
|              | RM attribute                                        |           | 128    |

## 6.11.7.2.2.1.1.2 TFCS

|           |                             |
|-----------|-----------------------------|
| TFCS size | 3                           |
| TFCS      | 124 kbps RAB =TF0, TF1, TF2 |

## 6.11.7.2.2.1.2 Physical channel parameters

|                |                           |                |
|----------------|---------------------------|----------------|
| S-CCPCH Type 2 | DTX position              | Flexible       |
|                | Spreading factor          | 16             |
|                | Number of codes           | 4              |
|                | Number of data bits/slot  | 1136           |
|                | Number of data bits/frame | 3408           |
|                | Modulation                | QPSK           |
|                | Slot Format #             | Format 2 and 3 |

## 6.11.7.2.2.2 320.4kbps RB for MBSFN MTCH with 80 ms TTI

## 6.11.7.2.2.2.1 Transport channel parameters

## 6.11.7.2.2.2.1.1 Transport channel parameters for 320.4 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 4272   |
|              | Max data rate, bps                                  |           | 320400 |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 8      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 4288   |
|              | TFS                                                 | TF0, bits | 0x4288 |
|              |                                                     | TF1, bits | 1x4288 |
|              |                                                     | TF2, bits | 2x4288 |
|              |                                                     | TF3, bits | 3x4288 |
|              |                                                     | TF4, bits | 4x4288 |
|              |                                                     | TF5, bits | 5x4288 |
|              |                                                     | TF6, bits | 6x4288 |
|              | TTI, ms                                             |           | 80     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 77544  |
|              | Max number of bits/radio frame before rate matching |           | 9693   |
|              | RM attribute                                        |           | 128    |

## 6.11.7.2.2.2.1.2 TFCS

|           |                                                 |
|-----------|-------------------------------------------------|
| TFCS size | 7                                               |
| TFCS      | 320 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6 |

## 6.11.7.2.2.2.2 Physical channel parameters

|                |                           |                |
|----------------|---------------------------|----------------|
| S-CCPCH Type 2 | DTX position              | Flexible       |
|                | Spreading factor          | 16             |
|                | Number of codes           | 4              |
|                | Number of data bits/slot  | 2288           |
|                | Number of data bits/frame | 6864           |
|                | Modulation                | 16QAM          |
|                | Slot Format #             | Format 4 and 5 |

6.11.7.2.2.3 497.6kbps RB for MBSFN MTCH with 80 ms TTI

6.11.7.2.2.3.1 Transport channel parameters

6.11.7.2.2.3.1.1 Transport channel parameters for 497.6 kbps PS RAB

|              |                                                     |           |        |
|--------------|-----------------------------------------------------|-----------|--------|
| Higher layer | RAB/signalling RB                                   |           | RAB    |
|              | User of Radio Bearer                                |           | MBMS   |
| RLC          | Logical channel type                                |           | MTCH   |
|              | RLC mode                                            |           | UM     |
|              | Payload sizes, bit                                  |           | 4976   |
|              | Max data rate, bps                                  |           | 497600 |
|              | UMD PDU header, bit                                 |           | 8      |
| MAC          | MAC header, bit                                     |           | 8      |
|              | MAC multiplexing                                    |           | N/A    |
| Layer 1      | TrCH type                                           |           | FACH   |
|              | TB sizes, bit                                       |           | 4992   |
|              | TFS                                                 | TF0, bits | 0x4992 |
|              |                                                     | TF1, bits | 1x4992 |
|              |                                                     | TF2, bits | 2x4992 |
|              |                                                     | TF3, bits | 3x4992 |
|              |                                                     | TF4, bits | 4x4992 |
|              |                                                     | TF5, bits | 5x4992 |
|              |                                                     | TF6, bits | 6x4992 |
|              |                                                     | TF7, bits | 7x4992 |
|              |                                                     | TF8, bits | 8x4992 |
|              | TTI, ms                                             |           | 80     |
|              | Coding type                                         |           | TC     |
|              | CRC, bit                                            |           | 16     |
|              | Max number of bits/TTI after channel coding         |           | 120288 |
|              | Max number of bits/radio frame before rate matching |           | 15036  |
|              | RM attribute                                        |           | 128    |

6.11.7.2.2.3.1.2 TFCS

|           |                                                           |
|-----------|-----------------------------------------------------------|
| TFCS size | 9                                                         |
| TFCS      | 496 kbps RAB =TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8 |

6.11.7.2.2.3.2 Physical channel parameters

|                |                           |                |
|----------------|---------------------------|----------------|
| S-CCPCH Type 2 | DTX position              | Flexible       |
|                | Spreading factor          | 16             |
|                | Number of codes           | 5              |
|                | Number of data bits/slot  | 2864           |
|                | Number of data bits/frame | 8592           |
|                | Modulation                | 16QAM          |
|                | Slot Format #             | Format 4 and 5 |

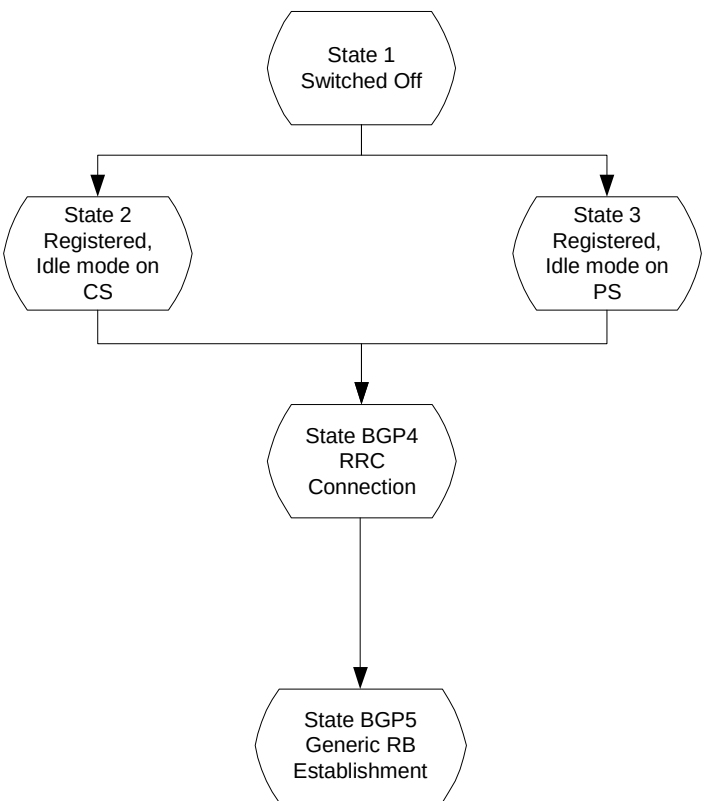
# 7 Generic setup procedures

## 7.1 Basic Generic Procedures

### 7.1.1 UE Test States for Basic Generic Procedures

This clause describes a set of procedures for use by test cases in 3GPP TS 34.123-1 [1]. Describing these procedures in a generic manner allows their use in many test cases. By using these procedures, test case descriptions need not detail signalling that is not relevant to its purpose or understanding.

The procedures are based upon default values that are adapted to the most common usage. Test cases that require values different from the default will, when specifying the Basic Generic Procedure, also specify those parameters that are modified.



**Figure 7.1.1: UE Test States for Basic Generic Procedures**

In order that the UE can set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.1.1 and the status of the relevant protocols in the UE in the different states are given in table 7.1.1.

**Table 7.1.1: The UE states**

|            |                          | RRC       | CC   | MM          | SM           | GMM              |
|------------|--------------------------|-----------|------|-------------|--------------|------------------|
| State 1    | Power OFF                | ----      | null | null        | pdp-inactive | GMM-null         |
| State 2    | CS Registered Idle Mode  | idle      | null | idle        | pdp-inactive | GMM-deregistered |
| State 3    | PS Registered Idle Mode  | idle      | null | null        | pdp-inactive | GMM-registered   |
| State BGP4 | RRC Connection           | connected | null | as previous | pdp-inactive | as previous      |
| State BGP5 | Generic RB Establishment | connected | null | as previous | pdp-inactive | as previous      |

## 7.1.2 Mobile terminated establishment of Radio Resource Connection

### 7.1.2.1 Initial conditions

#### System Simulator:

The system simulator will start from the default idle state. Parameters will be the default parameters for a single cell, unless otherwise specified in the test case.

#### User Equipment:

Unless otherwise specified in the test case, the UE will be in the following state:

- Default test operating conditions.
- The UE shall have followed the generic registration procedure for CS or PS operations, and will be in Idle Mode, Camped-on (State 2 or State 3).

### 7.1.2.2 Definition of system information messages

The default system information messages are used.

### 7.1.2.3 Procedure

- The SS sends a PAGING TYPE 1 message to the UE on the appropriate paging block, and with the IE "Paging record" containing the TMSI or P-TMSI of the UUT.
- The SS receives an RRC CONNECTION REQUEST message from the UE.
- On receipt of the RRC CONNECTION REQUEST the SS shall transmit a RRC CONNECTION SETUP message to the UE. The SS shall wait for the receipt of an RRC CONNECTION SETUP COMPLETE message from the UE.
- On receipt of an RRC CONNECTION SETUP COMPLETE message, the procedure is complete.

| Step | Direction |    | Message                              | Comments                  |
|------|-----------|----|--------------------------------------|---------------------------|
|      | UE        | SS |                                      |                           |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)            | Default SI messages       |
| 2    | ←         |    | PAGING TYPE 1 (PCCH)                 | Sent on appropriate cycle |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)        | RRC                       |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)          | RRC                       |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                       |

### 7.1.2.4 Specific message contents

#### 7.1.2.4.1 PAGING TYPE 1

This message is sent from the SS to the UE, using the TM RLC SAP, on the PCCH logical channel.

| Information Element                                                                                                                                                                                                    |               |               |                    | Value/Remark                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|--------------------|--------------------------------------------------------------|
| Message Type                                                                                                                                                                                                           |               |               |                    | PAGING TYPE 1                                                |
| <b>UE Information elements</b>                                                                                                                                                                                         |               |               |                    |                                                              |
| Paging record list                                                                                                                                                                                                     | Paging record | CN originator | Paging cause       | Terminating Speech Call (note)                               |
|                                                                                                                                                                                                                        |               |               | CN domain identity | CS domain (note)                                             |
|                                                                                                                                                                                                                        |               |               | UE Identity        | TMSI (GSM-MAP)<br>As specified during Registration procedure |
| <b>Other information elements</b>                                                                                                                                                                                      |               |               |                    |                                                              |
| BCCH modification info                                                                                                                                                                                                 |               |               |                    | omit                                                         |
| NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the Paging cause, CN domain identity and UE Identity are selected in accordance with the requirements of the following procedure. |               |               |                    |                                                              |

#### 7.1.2.4.2 RRC CONNECTION REQUEST

This message is sent by the UE to the SS using the TM-RLC SAP. It is sent on the CCCH Logical channel.

| Information Element                                                                                                                                                              |                               |                | Value/Remark                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------|------------------------------------------------------------------------------|
| Message Type                                                                                                                                                                     |                               |                | RRC CONNECTION REQUEST                                                       |
| UE information elements                                                                                                                                                          |                               |                |                                                                              |
| Initial UE identity                                                                                                                                                              | TMSI and LAI                  | TMSI (GSM-MAP) | As specified during Registration procedure                                   |
|                                                                                                                                                                                  |                               | LAI (GSM-MAP)  | As specified by default 1 cell environment                                   |
| Initial UE capability                                                                                                                                                            | Maximum number of AM entities |                | As declared in UE ICS                                                        |
| Establishment cause                                                                                                                                                              |                               |                | As appropriate                                                               |
| Protocol error indicator                                                                                                                                                         |                               |                | FALSE                                                                        |
| >UE Specific Behaviour Information 1 idle                                                                                                                                        |                               |                | This IE will not be checked by default behaviour, but in specific test case. |
| Measurement information elements                                                                                                                                                 |                               |                |                                                                              |
| Measured results on RACH                                                                                                                                                         |                               |                | Not checked                                                                  |
| NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the UE Identity is selected in accordance with the requirements of the following procedure. |                               |                |                                                                              |

#### 7.1.2.4.3 RRC CONNECTION SETUP

This message is sent from the SS to the UE using the UM-RLC SAP. The message is sent on the CCCH Logical channel.

The default RRC CONNECTION SETUP message for the transition to connected mode CELL\_DCH is used except for the IE fields specified below.

| Information Element                                                                                                                                                              |              |                | Value/Remark                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|--------------------------------------------|
| Message Type                                                                                                                                                                     |              |                | RRC CONNECTION SETUP                       |
| <b>UE Information Elements</b>                                                                                                                                                   |              |                |                                            |
| Initial UE identity                                                                                                                                                              | TMSI and LAI | TMSI (GSM-MAP) | As specified during Registration procedure |
|                                                                                                                                                                                  |              | LAI (GSM-MAP)  | As specified by default 1 cell environment |
| <b>RB Information Elements</b>                                                                                                                                                   |              |                |                                            |
| Use default                                                                                                                                                                      |              |                |                                            |
| <b>TrCH Information Elements</b>                                                                                                                                                 |              |                |                                            |
| Use default                                                                                                                                                                      |              |                |                                            |
| <b>PhyCH Information Elements</b>                                                                                                                                                |              |                |                                            |
| Frequency info                                                                                                                                                                   |              |                | As specified by default 1 cell environment |
| <b>Uplink radio resources</b>                                                                                                                                                    |              |                |                                            |
| Use default                                                                                                                                                                      |              |                |                                            |
| <b>Downlink radio resources</b>                                                                                                                                                  |              |                |                                            |
| Use default                                                                                                                                                                      |              |                |                                            |
| NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the UE Identity is selected in accordance with the requirements of the following procedure. |              |                |                                            |

#### 7.1.2.4.4 RRC CONNECTION SETUP COMPLETE

This message is sent by the UE to the SS using AM-RLC SAP. The message is sent on the DCCH Logical channel.

| Information Element            |                             |                                      | Value/Remark                  |
|--------------------------------|-----------------------------|--------------------------------------|-------------------------------|
| Message Type                   |                             |                                      | RRC CONNECTION SETUP COMPLETE |
| <b>UE Information Elements</b> |                             |                                      |                               |
| Hyper frame number             |                             |                                      | Not checked                   |
| UE radio access capability     | Conformance test compliance |                                      | R99                           |
|                                | PDCCP capability            | Support for lossless SRNS relocation | Not checked                   |



| Information Element |                                    |                                                    | Value/Remark                            |
|---------------------|------------------------------------|----------------------------------------------------|-----------------------------------------|
|                     |                                    | Supported algorithm types                          | Not checked                             |
|                     | RLC capability                     | Total RLC AM buffer size                           | Not checked                             |
|                     |                                    | Maximum number of AM entities                      | Not checked                             |
|                     | Transport channel capability       | <b>Downlink</b>                                    |                                         |
|                     |                                    | Max no of bits received                            | Not checked                             |
|                     |                                    | Max convolutionally coded bits received            | Not checked                             |
|                     |                                    | Max turbo coded bits received                      | Not checked                             |
|                     |                                    | Maximum number of simultaneous transport channels  | Not checked                             |
|                     |                                    | Max no of received transport blocks                | Not checked                             |
|                     |                                    | Maximum number of TFC in the TFCS                  | Not checked                             |
|                     |                                    | Maximum number of TF                               | Not checked                             |
|                     |                                    | Support for turbo decoding                         | Not checked                             |
|                     |                                    | <b>Uplink</b>                                      |                                         |
|                     |                                    | Max no of bits transmitted                         | Not checked                             |
|                     |                                    | Max convolutionally coded bits received            | Not checked                             |
|                     |                                    | Max turbo coded bits received                      | Not checked                             |
|                     |                                    | Maximum number of simultaneous transport channels  | Not checked                             |
|                     |                                    | Max no of transmitted transport blocks             | Not checked                             |
|                     |                                    | Maximum number of TFC in the TFCS                  | Not checked                             |
|                     |                                    | Maximum number of TF                               | Not checked                             |
|                     |                                    | Support for turbo encoding                         | Not checked                             |
|                     | RF capability                      | UE power class                                     | As declared for UE                      |
|                     |                                    | Tx/Rx frequency separation                         | Not checked                             |
|                     | Physical channel capability        | <b>Downlink</b>                                    |                                         |
|                     |                                    | Maximum number of simultaneous CCTrCH              | Not checked                             |
|                     |                                    | Max no DPCH/PDSCH codes                            | Not checked (PDSCH: R99 and Rel-4 only) |
|                     |                                    | Max no physical channel bits received              | Not checked                             |
|                     |                                    | Support for SF 512                                 | Not checked                             |
|                     |                                    | Support of PDSCH                                   | Not checked (R99 and Rel-4 only)        |
|                     |                                    | Simultaneous reception of SCCPCH and DPCH          | Not checked                             |
|                     |                                    | Max no of S-CCPCH RL                               | Not checked                             |
|                     |                                    | <b>Uplink</b>                                      |                                         |
|                     |                                    | Maximum number of DPDCH bits transmitted per 10 ms | Not checked                             |
|                     |                                    | Support of PCPCH (R99 and Rel-4 only)              | Not checked                             |
|                     | UE multi-mode/multi-RAT capability | Multi-RAT capability                               |                                         |
|                     |                                    | Multi-mode capability                              | FDD or FDD/TDD                          |
|                     | Security capability                | Ciphering algorithm capability                     | Not checked                             |
|                     |                                    | Integrity protection algorithm capability          | Not checked                             |
|                     | LCS capability                     | Standalone location method(s) supported            | Not checked                             |

| Information Element           |                        |                                   | Value/Remark |
|-------------------------------|------------------------|-----------------------------------|--------------|
|                               |                        | UE based OTDOA supported          | Not checked  |
|                               |                        | Network Assisted GPS support      | Not checked  |
|                               |                        | GPS reference time capable        | Not checked  |
|                               |                        | Support for IPDL                  | Not checked  |
|                               | Measurement capability | Need for downlink compressed mode | Not checked  |
|                               |                        | FDD measurements DL               | Not checked  |
|                               |                        | TDD measurements DL               | Not checked  |
|                               |                        | GSM 900 DL                        | Not checked  |
|                               |                        | DCS 1800 DL                       | Not checked  |
|                               |                        | GSM 1900 DL                       | Not checked  |
|                               |                        | Multi-carrier measurement DL      | Not checked  |
|                               |                        | Need for uplink compressed mode   | Not checked  |
|                               |                        | FDD measurements UL               | Not checked  |
|                               |                        | TDD measurements UL               | Not checked  |
|                               |                        | GSM 900 UL                        | Not checked  |
|                               |                        | DCS 1800 UL                       | Not checked  |
|                               |                        | GSM 1900 UL                       | Not checked  |
|                               |                        | Multi-carrier measurement UL      | Not checked  |
| UE system specific capability |                        |                                   | Not checked  |

### 7.1.3 Radio Bearer Setup Procedure

#### 7.1.3.1 Initial conditions

The procedure specified in clause 7.1.2 will be run. This procedure starts from the successful completion of clause 7.1.2.

#### 7.1.3.2 Definition of system information messages

The default system information messages are used.

#### 7.1.3.3 Procedure

- The SS sends a RADIO BEARER SETUP message to the UE on the DCCH established by the RRC Connection Establishment procedure.
- The SS receives a RADIO BEARER SETUP COMPLETE message from the UE in RLC Acknowledged mode on the DCCH.

On reception of the RADIO BEARER SETUP COMPLETE the procedure is complete.

| Step | Direction |    | Message                            | Comments |
|------|-----------|----|------------------------------------|----------|
|      | UE        | SS |                                    |          |
| 1    | ←         |    | RADIO BEARER SETUP (DCCH)          | RRC      |
| 2    |           | →  | RADIO BEARER SETUP COMPLETE (DCCH) | RRC      |

#### 7.1.3.4 Specific message contents

##### 7.1.3.4.1 RADIO BEARER SETUP

The RADIO BEARER SETUP message is sent from the System Simulator to the UE, using AM-RLC on the DCCH logical channel.

The default RRC CONNECTION SETUP message for the setup of a speech radio access bearer is used except for the IE fields specified below.

| Information Element       |                                                                                                                                                                                                   | Value/Remark       |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Message Type              |                                                                                                                                                                                                   | RADIO BEARER SETUP |
| UE Information Elements   |                                                                                                                                                                                                   |                    |
| CN Information Elements   |                                                                                                                                                                                                   |                    |
| RB Information Elements   |                                                                                                                                                                                                   |                    |
| RAB information for setup | Default parameters for 12.2 kbps speech RAB + 3.4 kbps signalling radio bearer according to clause 6.10.2.4.1.4 for FDD, clause 6.10.3.4.1.4 for 3.84 Mcps TDD and 6.11.5.4.1.4 for 1.28 Mcps TDD |                    |

7.1.3.4.2 RADIO BEARER SETUP COMPLETE

The RADIO BEARER SETUP COMPLETE message is sent from the UE to the System Simulator, using AM-RLC on the DCCH logical channel.

The default RADIO BEARER SETUP COMPLETE message is used.

| Information Element |  | Value/Remark                |
|---------------------|--|-----------------------------|
| Message Type        |  | RADIO BEARER SETUP COMPLETE |
| Use default         |  |                             |

7.2 Generic setup procedures

7.2.1 UE Test States for Generic setup procedures

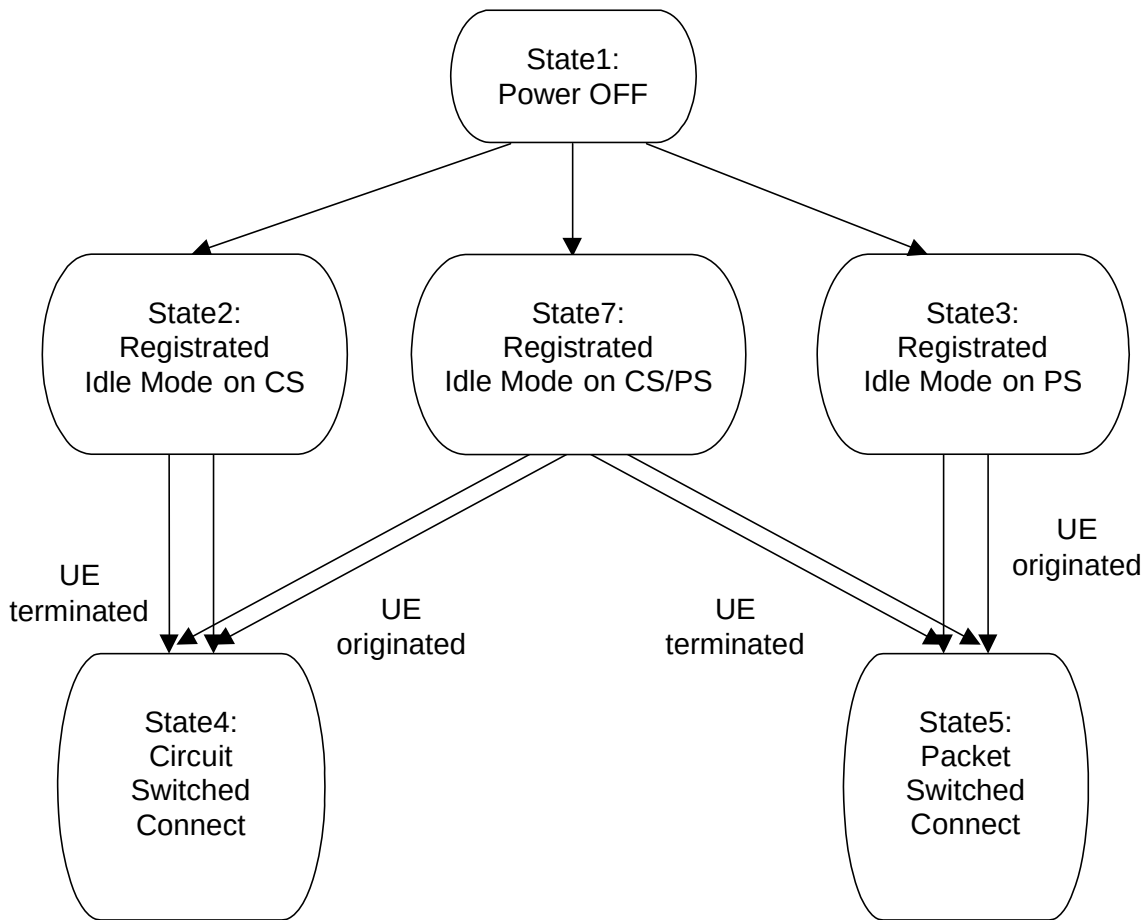


Figure 7.2.1.1: UE Test States for Generic setup procedures

In order that the UE can set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.2.1.1 and the status of the relevant protocols in the UE in the different states are given in table 7.2.1.1.

**Table 7.2.1.1: The UE states**

|        |                               | <b>RRC</b> | <b>CC</b> | <b>MM</b>              | <b>SM</b>    | <b>GMM</b>             |
|--------|-------------------------------|------------|-----------|------------------------|--------------|------------------------|
| State1 | Power OFF                     | -----      | null      | null                   | pdp-inactive | GMM-null               |
| State2 | Registered Idle Mode on CS    | idle       | null      | MM idle                | pdp-inactive | GMM-deregistered       |
| State3 | Registered Idle Mode on PS    | idle       | null      | null                   | pdp-inactive | GMM-registered         |
| State4 | Circuit Switched Connect      | connected  | active    | MM connection active   | pdp-inactive | same as previous state |
| State5 | Packet Switched Connect       | connected  | null      | same as previous state | pdp-active   | GMM-registered         |
| State7 | Registered Idle Mode on CS/PS | idle       | null      | MM idle                | pdp-inactive | GMM-registered         |

## 7.2.2 Registration of UE

The default procedures required to achieve the changes of state between State 1, in clause 7.2.1, and States 2, 3 and 7 are illustrated in the following clauses.

The choice of which procedure to use given a UE supporting packet services is influenced by the Network Mode of Operation being simulated by the SS and by the Operation Mode of the UE, as described in 3GPP TS 24.008 [32] clause 1.7.2.2. Table 7.2.2 shows the appropriate clause number for each combination of these two modes of operation.

**Table 7.2.2: Registration Procedures for UEs Supporting Packet Services**

| <b>Network Mode</b> |              | <b>NMO I</b> | <b>NMO II</b> |
|---------------------|--------------|--------------|---------------|
| <b>UE Mode</b>      | <b>PS/CS</b> | 7.2.2.3      | 7.2.2.4       |
|                     | <b>PS</b>    | 7.2.2.2      | 7.2.2.2       |

### 7.2.2.1 Registration on CS

#### 7.2.2.1.1 Initial condition

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

#### 7.2.2.1.2 Definition of system information messages

The default system information messages are used.

#### 7.2.2.1.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                              | Comments     |
|------|-----------|----|--------------------------------------|--------------|
|      | UE        | SS |                                      |              |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)            | NW Broadcast |
| 2    | →         |    | RRC CONNECTION REQUEST (CCCH)        | RRC          |
| 3    | ←         |    | RRC CONNECTION SETUP (CCCH)          | RRC          |
| 4    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC          |
| 5    | →         |    | LOCATION UPDATING REQUEST            | MM           |
| 6    | ←         |    | AUTHENTICATION REQUEST               | MM           |
| 7    | →         |    | AUTHENTICATION RESPONSE              | MM           |
| 8    | ←         |    | SECURITY MODE COMMAND                | RRC          |
| 9    | →         |    | SECURITY MODE COMPLETE               | RRC          |
| 10   | ←         |    | LOCATION UPDATING ACCEPT             | MM           |
| 11   | →         |    | TMSI REALLOCATION COMPLETE           | MM           |
| 12   | ←         |    | RRC CONNECTION RELEASE               | RRC          |
| 13   | →         |    | RRC CONNECTION RELEASE COMPLETE      | RRC          |

#### 7.2.2.1.4 Specific message contents

All Specific message contents shall be referred to clause 9.

### 7.2.2.2 Registration on PS

#### 7.2.2.2.1 Initial condition

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

-If RAN Assisted WLAN interworking test cases are being performed for ANDSF rules using RAN provided thresholds, ANDSF rules to match the RAN rules defined in TS 25.304 are available in the UE.

#### 7.2.2.2.2 Definition of system information messages

The default system information messages are used.

#### 7.2.2.2.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                               | Comments     |
|------|-----------|----|---------------------------------------|--------------|
|      | UE        | SS |                                       |              |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | NW Broadcast |
| 2    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC          |
| 3    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC          |
| 4    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC          |
| 5    | →         |    | ATTACH REQUEST                        | GMM          |
| 6    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM          |
| 7    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM          |
| 8    | ←         |    | SECURITY MODE COMMAND                 | RRC          |
| 9    | →         |    | SECURITY MODE COMPLETE                | RRC          |
| 10   | ←         |    | ATTACH ACCEPT                         | GMM          |
| 11   | →         |    | ATTACH COMPLETE                       | GMM          |
| 12   | ←         |    | RRC CONNECTION RELEASE                | RRC          |
| 13   | →         |    | RRC CONNECTION RELEASE COMPLETE       | RRC          |

#### 7.2.2.2.4 Specific message contents

All Specific message contents shall be referred to clause 9.

### 7.2.2.3 Registration on CS / PS combined environment

#### 7.2.2.3.1 Initial condition

System Simulator:

- 1 cell operating in network operation mode I, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.
- If RAN Assisted WLAN interworking test cases are being performed for ANDSF rules using RAN provided thresholds, ANDSF rules to match the RAN rules defined in TS 25.304 are available in the UE.

#### 7.2.2.3.2 Definition of system information messages

The default system information messages are used.

#### 7.2.2.3.3 Procedure UE establish PS registration immediately after the UE has been switched on

Registration of UE for SS shall be established under ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                               | Comments     |
|------|-----------|----|---------------------------------------|--------------|
|      | UE        | SS |                                       |              |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | NW Broadcast |
| 2    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC          |
| 3    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC          |
| 4    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC          |
| 5    | →         |    | ATTACH REQUEST                        | GMM          |
| 6    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM          |
| 7    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM          |
| 8    | ←         |    | SECURITY MODE COMMAND                 | RRC          |
| 9    | →         |    | SECURITY MODE COMPLETE                | RRC          |
| 10   | ←         |    | ATTACH ACCEPT                         | GMM          |
| 11   | →         |    | ATTACH COMPLETE                       | GMM          |
| 12   | ←         |    | RRC CONNECTION RELEASE                | RRC          |
| 13   | →         |    | RRC CONNECTION RELEASE COMPLETE       | RRC          |

#### 7.2.2.3.3a Procedure UE establish PS registration later the user decides to use the PS services

CS registration has been successfully completed and RRC connection is released, see clause 7.2.2.1. Registration of UE for SS shall be established under ideal radio conditions as defined in clause 5.

| Step    | Direction |    | Message                               | Comments                                                            |
|---------|-----------|----|---------------------------------------|---------------------------------------------------------------------|
|         | UE        | SS |                                       |                                                                     |
| 1<br>1a | ←         |    | SYSTEM INFORMATION (BCCH)             | NW Broadcast<br>The UE initiates an attach by MMI or by AT command. |
| 2       | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                                                                 |
| 3       | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                                                                 |
| 4       | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                                                                 |
| 5       | →         |    | ATTACH REQUEST                        | GMM                                                                 |
| 6       | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                 |
| 7       | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                 |
| 8       | ←         |    | SECURITY MODE COMMAND                 | RRC                                                                 |
| 9       | →         |    | SECURITY MODE COMPLETE                | RRC                                                                 |
| 10      | ←         |    | ATTACH ACCEPT                         | GMM                                                                 |
| 11      | →         |    | ATTACH COMPLETE                       | GMM                                                                 |
| 12      | ←         |    | RRC CONNECTION RELEASE                | RRC                                                                 |

|    |   |                                 |     |
|----|---|---------------------------------|-----|
| 13 | → | RRC CONNECTION RELEASE COMPLETE | RRC |
|----|---|---------------------------------|-----|

#### 7.2.2.3.4 Specific message contents

All Specific message contents shall be referred to clause 9.

#### 7.2.2.4 Registration on CS / PS non-combined environment

##### 7.2.2.4.1 Initial condition

System Simulator:

- 1 cell operating in network operation mode II, default parameters.

User Equipment:

- The UE set to Operation mode A
- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

##### 7.2.2.4.2 Definition of system information messages

The default system information messages are used.

##### 7.2.2.4.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in clause 5.

Registrations in the CS domain and in the PS domain shall execute independently. The separate registration procedures may occur sequentially or in parallel. If the procedures occur sequentially PS domain registration can be started immediately after power on or the UE can initiate PS registration by MMI or by AT command. If MMI or AT commands are used, registrations are done with two separate RRC connections. The procedures for CS and PS registration shall be as defined in clauses 7.2.2.1 and 7.2.2.2.

##### 7.2.2.4.4 Specific message contents

All Specific message contents shall be referred to clause 9.

### 7.2.3 Call setup

#### 7.2.3.1 Generic call set up procedure for mobile terminating circuit switched calls

##### 7.2.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

##### 7.2.3.1.2 Definition of system information messages

The default system information messages are used.

##### 7.2.3.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message | Comments |
|------|-----------|----|---------|----------|
|      | UE        | SS |         |          |

| Step                                                                         | Direction |    | Message                              | Comments                      |
|------------------------------------------------------------------------------|-----------|----|--------------------------------------|-------------------------------|
|                                                                              | UE        | SS |                                      |                               |
| 1                                                                            | ←         |    | SYSTEM INFORMATION (BCCH)            | Broadcast                     |
| 2                                                                            | ←         |    | PAGING (PCCH)                        | Paging                        |
| 3                                                                            | →         |    | RRC CONNECTION REQUEST (CCCH)        | RRC                           |
| 4                                                                            | ←         |    | RRC CONNECTION SETUP (CCCH)          | RRC                           |
| 5                                                                            | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                           |
| 6                                                                            | →         |    | PAGING RESPONSE                      | RR                            |
| 7                                                                            | ←         |    | AUTHENTICATION REQUEST               | MM                            |
| 8                                                                            | →         |    | AUTHENTICATION RESPONSE              | MM                            |
| 9                                                                            | ←         |    | SECURITY MODE COMMAND                | RRC                           |
| 10                                                                           | →         |    | SECURITY MODE COMPLETE               | RRC                           |
| 11                                                                           | ←         |    | SET UP                               | CC (see note)                 |
| 12                                                                           | →         |    | CALL CONFIRMED                       | CC                            |
| 13                                                                           | ←         |    | RADIO BEARER SETUP                   | RRC RAB SETUP                 |
| 14                                                                           | →         |    | RADIO BEARER SETUP COMPLETE          | RRC                           |
| 15                                                                           | →         |    | ALERTING                             | CC (this message is optional) |
| 16                                                                           | →         |    | CONNECT                              | CC                            |
| 17                                                                           | ←         |    | CONNECT ACKNOWLEDGE                  | CC                            |
| NOTE: The "Signal" information element is not included in the SETUP message. |           |    |                                      |                               |

#### 7.2.3.1.4 Specific message contents

All Specific message contents shall be referred to clause 9.

#### 7.2.3.2 Generic call set-up procedure for mobile originating circuit switched calls

##### 7.2.3.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

##### 7.2.3.2.2 Definition of system information messages

The default system information messages are used.

##### 7.2.3.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                              | Comments      |
|------|-----------|----|--------------------------------------|---------------|
|      | UE        | SS |                                      |               |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)            | Broadcast     |
| 2    | →         |    | RRC CONNECTION REQUEST (CCCH)        | RRC           |
| 3    | ←         |    | RRC CONNECTION SETUP (CCCH)          | RRC           |
| 4    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC           |
| 5    | →         |    | CM SERVICE REQUEST                   | MM            |
| 6    | ←         |    | AUTHENTICATION REQUEST               | MM            |
| 7    | →         |    | AUTHENTICATION RESPONSE              | MM            |
| 8    | ←         |    | SECURITY MODE COMMAND                | RRC           |
| 9    | →         |    | SECURITY MODE COMPLETE               | RRC           |
| 10   | →         |    | SET UP                               | CC            |
| 11   | ←         |    | CALL PROCEEDING                      | CC            |
| 12   | ←         |    | RADIO BEARER SETUP                   | RRC RAB SETUP |
| 13   | →         |    | RADIO BEARER SETUP COMPLETE          | RRC           |
| 14   | ←         |    | ALERTING                             | CC            |
| 15   | ←         |    | CONNECT                              | CC            |



|    |   |                     |    |
|----|---|---------------------|----|
| 16 | → | CONNECT ACKNOWLEDGE | CC |
|----|---|---------------------|----|

#### 7.2.3.2.4 Specific message contents

All Specific message contents shall be referred to clause 9.

### 7.2.3.3 Supplementary service procedures

#### 7.2.3.3.1 Generic procedures for Multiparty call set up

##### 7.2.3.3.1.1 General on generic procedures for Multiparty call set up

In the generic procedures for Multiparty call set up the following conventions shall apply. Subscriber A is the UE under test, and subscribers B, C, D and E are distant parties to the calls are made. The calls between the UE under test and subscriber B, C, D and E are referenced by Call A-B, Call A-C, Call A-D and Call A-E. The value of the transaction identifier for each call is arbitrary, except that each value must be different from the other ones.

##### 7.2.3.3.1.2 Call A-B in state U10 "Active" with auxiliary state "Call held"

##### 7.2.3.3.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

##### 7.2.3.3.1.2.2 Definition of system information messages

The default system information messages are used.

##### 7.2.3.3.1.2.3 Procedure

The procedure shall be performed under ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                                                | Comments                                                          |
|------|-----------|----|--------------------------------------------------------|-------------------------------------------------------------------|
|      | UE        | SS |                                                        |                                                                   |
| 1    |           |    | The UE is made to have Call A-B in state U10 "Active". | This state is achieved by the procedure given in section 7.2.3.2. |
| 2    |           |    | Make the UE to put Call A-B on hold                    |                                                                   |
| 3    | →         |    | HOLD                                                   | CC                                                                |
| 4    | ←         |    | HOLD ACKNOWLEDGE                                       | CC                                                                |

##### 7.2.3.3.1.2.4 Specific message contents

All Specific message contents shall be referred to clause 9 with the following exceptions.

HOLD (Step 3)

| Information Element    | Value/remark                                    |
|------------------------|-------------------------------------------------|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-B   |
| Message type           | xx01 1000 B, bits 7 and 8 are not checked       |

HOLD ACKNOWLEDGE (Step 4)

| Information Element    | Value/remark                                    |
|------------------------|-------------------------------------------------|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-B   |

| Information Element | Value/remark |
|---------------------|--------------|
| Message type        | 0001 1001 B  |

7.2.3.3.1.3 Call A-B in state U10 "Active" with auxiliary state "Call held" and Call A-C in state U4 "Call Delivered"

7.2.3.3.1.3.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.3.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.3.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                                                                                 | Comments                                                              |
|------|-----------|----|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|      | UE        | SS |                                                                                         |                                                                       |
| 1    |           |    | The UE is made to have Call A-B in state U10 "Active" with auxiliary state "Call held". | This state is achieved by the procedure given in section 7.2.3.3.1.2. |
| 2    |           |    | Make the UE attempt a call to subscriber C                                              |                                                                       |
| 3    | →         |    | CM SERVICE REQUEST                                                                      | MM                                                                    |
| 4    | ←         |    | CM SERVICE ACCEPT                                                                       | MM                                                                    |
| 5    | →         |    | SET UP                                                                                  | CC                                                                    |
| 6    | ←         |    | CALL PROCEEDING                                                                         | CC                                                                    |
| 7    | ←         |    | ALERTING                                                                                | CC                                                                    |

7.2.3.3.1.3.4 Specific message contents

All Specific message contents shall be referred to clause 9.

7.2.3.3.1.4 Call A-B in state U10 "Active" with auxiliary state "Call held" and Call A-C in state U10 "Active"

7.2.3.3.1.4.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.4.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.4.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction | Message | Comments |
|------|-----------|---------|----------|
|------|-----------|---------|----------|

|   | UE | SS |                                                                                                                                                           |
|---|----|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 |    |    | The UE is made to have Call A-B in state U10 "Active" with auxiliary state "Call held" and Call A-C in state U4 "Call Delivered" with no auxiliary state. |
| 2 | ←  |    | CONNECT                                                                                                                                                   |
| 3 | →  |    | CONNECT ACKNOWLEDGE                                                                                                                                       |
|   |    |    | This state is achieved by the procedure given in section 7.2.3.3.1.3.<br>CC<br>CC                                                                         |

#### 7.2.3.3.1.4.4 Specific message contents

All Specific message contents shall be referred to clause 9.

#### 7.2.3.3.1.5 Call A-B and Call A-C in state U10 "Active" with Auxiliary state "Call in MPTY"

##### 7.2.3.3.1.5.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

##### 7.2.3.3.1.5.2 Definition of system information messages

The default system information messages are used.

##### 7.2.3.3.1.5.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                                                                                                                                            | Comments                                                              |
|------|-----------|----|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|      | UE        | SS |                                                                                                                                                    |                                                                       |
| 1    |           |    | The UE is made to have Call A-B in state U10 "Active" with auxiliary state "Call held" and Call A-C in state U10 "Active" with no auxiliary state. | This state is achieved by the procedure given in section 7.2.3.3.1.4. |
| 2    |           |    | Make the UE to join Call A-B and Call A-C                                                                                                          |                                                                       |
| 3    | →         |    | FACILITY                                                                                                                                           | CC                                                                    |
| 4    | ←         |    | FACILITY                                                                                                                                           | CC                                                                    |

##### 7.2.3.3.1.5.4 Specific message contents

All Specific message contents shall be referred to clause 9 with the following exceptions.

FACILITY with Invoke component (Step 3)

| Information Element              | Value/remark                                              |
|----------------------------------|-----------------------------------------------------------|
| Protocol discriminator           | 0011 B (call control; call related SS messages)           |
| Transaction identifier           | The same value that has been used in Call A-B or Call A-C |
| Message type                     | xx11 1010 B, bits 7 and 8 are not checked                 |
| Facility IE                      |                                                           |
| - Length of Facility IE contents | 8                                                         |
| - Component type tag             | 1010 0001 B (invoke)                                      |
| - Component length               | 6                                                         |
| - Invoke ID tag                  | 0000 0010 B (invoke ID)                                   |
| - Invoke ID length               | 1                                                         |
| - Invoke ID                      | arbitrary integer value.                                  |
| - Operation Code tag             | 0000 0010 B                                               |
| - Operation Code length          | 1                                                         |
| - Operation Code                 | 0111 1100 B (BuildMPTY)                                   |
| - Parameters                     | not present                                               |

## FACILITY with Return Result component (Step 4)

| Information Element              | Value/remark                                    |
|----------------------------------|-------------------------------------------------|
| Protocol discriminator           | 0011 B (call control; call related SS messages) |
| Transaction identifier           | The same value that has been used in step 3     |
| Message Type                     | 0011 1010 B                                     |
| Facility IE                      |                                                 |
| - Length of Facility IE contents | 5                                               |
| - Component type tag             | 1010 0010 B (return result)                     |
| - Component length               | 3                                               |
| - Invoke ID tag                  | 0000 0010 B (invoke ID)                         |
| - Invoke ID length               | 1                                               |
| - Invoke ID                      | The same value that has been used in step 3     |
| - Operation Code tag             | not present                                     |
| - Operation Code length          | not present                                     |
| - Operation Code                 | not present                                     |
| - Parameters                     | not present                                     |

7.2.3.3.1.6 Call A-B and Call A-C in state U10 "Active" with Auxiliary state "Call in MPTY, call held"

7.2.3.3.1.6.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.6.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.6.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                                                                                                                                                                  | Comments                                                              |
|------|-----------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|      | UE        | SS |                                                                                                                                                                          |                                                                       |
| 1    |           |    | The UE is made to have a MultiParty call to two destinations (Call A-B and Call A-C) active. Both call states shall be U10 "Active" with auxiliary state "Call in MPTY". | This state is achieved by the procedure given in section 7.2.3.3.1.5. |
| 2    |           |    | Make the UE to put the MultiParty call on hold                                                                                                                           |                                                                       |
| 3    | →         |    | FACILITY                                                                                                                                                                 | CC                                                                    |
| 4    | ←         |    | FACILITY                                                                                                                                                                 | CC                                                                    |

7.2.3.3.1.6.4 Specific message contents

All Specific message contents shall be referred to clause 9 with the following exceptions.

FACILITY with Invoke component (Step 3)

| Information Element              | Value/remark                                              |
|----------------------------------|-----------------------------------------------------------|
| Protocol discriminator           | 0011 B (call control; call related SS messages)           |
| Transaction identifier           | The same value that has been used in Call A-B or Call A-C |
| Message type                     | xx11 1010 B, bits 7 and 8 are not checked                 |
| Facility IE                      |                                                           |
| - Length of Facility IE contents | 8                                                         |
| - Component type tag             | 1010 0001 B (invoke)                                      |
| - Component length               | 6                                                         |

| Information Element     | Value/remark             |
|-------------------------|--------------------------|
| - Invoke ID tag         | 0000 0010 B (invoke ID)  |
| - Invoke ID length      | 1                        |
| - Invoke ID             | arbitrary integer value. |
| - Operation Code tag    | 0000 0010 B              |
| - Operation Code length | 1                        |
| - Operation Code        | 0111 1011 B (HoldMPTY)   |
| - Parameters            | not present              |

## FACILITY with Return Result component (Step 4)

| Information Element              | Value/remark                                    |
|----------------------------------|-------------------------------------------------|
| Protocol discriminator           | 0011 B (call control; call related SS messages) |
| Transaction identifier           | The same value that has been used in step 3     |
| Message Type                     | 0011 1010 B                                     |
| Facility IE                      |                                                 |
| - Length of Facility IE contents | 5                                               |
| - Component type tag             | 1010 0010 B (return result)                     |
| - Component length               | 3                                               |
| - Invoke ID tag                  | 0000 0010 B (invoke ID)                         |
| - Invoke ID length               | 1                                               |
| - Invoke ID                      | The same value that has been used in step 3     |
| - Operation Code tag             | not present                                     |
| - Operation Code length          | not present                                     |
| - Operation Code                 | not present                                     |
| - Parameters                     | not present                                     |

7.2.3.3.1.7 Call A-B and Call A-C in state U10 "Active" with Auxiliary state "Call in MPTY, call held" and Call A-D in state U10 "Active"

7.2.3.3.1.7.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.7.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.7.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                                                                                                                                                                           | Comments                                                              |
|------|-----------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|      | UE        | SS |                                                                                                                                                                                   |                                                                       |
| 1    |           |    | The UE is made to have a held MultiParty call to two destinations (Call A-B and Call A-C). Both call states shall be U10 "Active" with auxiliary state "Call in MPTY, call held". | This state is achieved by the procedure given in section 7.2.3.3.1.6. |
| 2    |           |    | Make the UE attempt a call to subscriber D                                                                                                                                        |                                                                       |
| 3    | →         |    | CM SERVICE REQUEST                                                                                                                                                                | MM                                                                    |
| 4    | ←         |    | CM SERVICE ACCEPT                                                                                                                                                                 | MM                                                                    |
| 5    | →         |    | SET UP                                                                                                                                                                            | CC                                                                    |
| 6    | ←         |    | CALL PROCEEDING                                                                                                                                                                   | CC                                                                    |
| 7    | ←         |    | ALERTING                                                                                                                                                                          | CC                                                                    |
| 8    | ←         |    | CONNECT                                                                                                                                                                           | CC                                                                    |
| 9    | →         |    | CONNECT ACKNOWLEDGE                                                                                                                                                               | CC                                                                    |

## 7.2.3.3.1.7.4 Specific message contents

All Specific message contents shall be referred to clause 9.

7.2.3.3.1.8 Call A-B and Call A-C in state U10 "Active" with Auxiliary state "Call in MPTY" and Call A-D in state U10 "Active" with Auxiliary state "Call held"

## 7.2.3.3.1.8.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

## 7.2.3.3.1.8.2 Definition of system information messages

The default system information messages are used.

## 7.2.3.3.1.8.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                                                                                                                                                                                                                                 | Comments                                                              |
|------|-----------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|      | UE        | SS |                                                                                                                                                                                                                                         |                                                                       |
| 1    |           |    | The UE is made to have a MultiParty call to two destinations (A-B and A-C) both in state U10 "Active" with auxiliary state "Call in MPTY, call held" and in addition a single call (A-D) in state U10 "Active" with no auxiliary state. | This state is achieved by the procedure given in section 7.2.3.3.1.7. |
| 2    |           |    | Make the UE to alternate between the active and held calls                                                                                                                                                                              |                                                                       |
| 3    | →         |    | HOLD                                                                                                                                                                                                                                    |                                                                       |
| 4    | →         |    | FACILITY                                                                                                                                                                                                                                |                                                                       |
| 5    | ←         |    | HOLD ACKNOWLEDGE                                                                                                                                                                                                                        |                                                                       |
| 6    | ←         |    | FACILITY                                                                                                                                                                                                                                |                                                                       |

## 7.2.3.3.1.8.4 Specific message contents

All Specific message contents shall be referred to clause 9 with the following exceptions.

HOLD (Step 3)

| Information Element    | Value/remark                                    |
|------------------------|-------------------------------------------------|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-D   |
| Message type           | xx01 1000 B, bits 7 and 8 are not checked       |

FACILITY with Invoke component (Step 4)

| Information Element              | Value/remark                                              |
|----------------------------------|-----------------------------------------------------------|
| Protocol discriminator           | 0011 B (call control; call related SS messages)           |
| Transaction identifier           | The same value that has been used in Call A-B or Call A-C |
| Message type                     | xx11 1010 B, bits 7 and 8 are not checked                 |
| Facility IE                      |                                                           |
| - Length of Facility IE contents | 8                                                         |
| - Component type tag             | 1010 0001 B (invoke)                                      |
| - Component length               | 6                                                         |
| - Invoke ID tag                  | 0000 0010 B (invoke ID)                                   |
| - Invoke ID length               | 1                                                         |
| - Invoke ID                      | arbitrary integer value.                                  |

| Information Element     | Value/remark               |
|-------------------------|----------------------------|
| - Operation Code tag    | 0000 0010 B                |
| - Operation Code length | 1                          |
| - Operation Code        | 0111 1010 B (RetrieveMPTY) |
| - Parameters            | not present                |

## HOLD ACKNOWLEDGE (Step 5)

| Information Element    | Value/remark                                    |
|------------------------|-------------------------------------------------|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-D   |
| Message type           | 0001 1001 B                                     |

## FACILITY with Return Result component (Step 6)

| Information Element              | Value/remark                                    |
|----------------------------------|-------------------------------------------------|
| Protocol discriminator           | 0011 B (call control; call related SS messages) |
| Transaction identifier           | The same value that has been used in step 4     |
| Message Type                     | 0011 1010 B                                     |
| Facility IE                      |                                                 |
| - Length of Facility IE contents | 5                                               |
| - Component type tag             | 1010 0010 B (return result)                     |
| - Component length               | 3                                               |
| - Invoke ID tag                  | 0000 0010 B (invoke ID)                         |
| - Invoke ID length               | 1                                               |
| - Invoke ID                      | The same value that has been used in step 4     |
| - Operation Code tag             | not present                                     |
| - Operation Code length          | not present                                     |
| - Operation Code                 | not present                                     |
| - Parameters                     | not present                                     |

7.2.3.3.1.9 Call A-B, Call A-C and Call A-D in state U10 "Active" with Auxiliary state "Call in MPTY" and Call A-E in state U10 "Active" with Auxiliary state "Call held"

## 7.2.3.3.1.9.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

## 7.2.3.3.1.9.2 Definition of system information messages

The default system information messages are used.

## 7.2.3.3.1.9.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                                                                                                                                                                                                                               | Comments                                                              |
|------|-----------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|      | UE        | SS |                                                                                                                                                                                                                                       |                                                                       |
| 1    |           |    | The UE is made to have a MultiParty call to two destinations (A-B and A-C) both in state U10 "Active" with auxiliary state "Call in MPTY" and in addition a single call (A-D) in state U10 "Active" with auxiliary state "Call held". | This state is achieved by the procedure given in section 7.2.3.3.1.8. |
| 2    |           |    | Make the UE to join the MultiParty call and Call A-D                                                                                                                                                                                  |                                                                       |
| 3    | →         |    | FACILITY                                                                                                                                                                                                                              | CC                                                                    |
| 4    | ←         |    | FACILITY                                                                                                                                                                                                                              | CC                                                                    |
| 5    |           |    | Make the UE to put the MultiParty call on hold                                                                                                                                                                                        |                                                                       |

|    |   |                                                            |    |
|----|---|------------------------------------------------------------|----|
| 6  | → | FACILITY                                                   | CC |
| 7  | ← | FACILITY                                                   | CC |
| 8  |   | Make the UE attempt a call to subscriber E                 |    |
| 9  | → | CM SERVICE REQUEST                                         | MM |
| 10 | ← | CM SERVICE ACCEPT                                          | MM |
| 11 | → | SET UP                                                     | CC |
| 12 | ← | CALL PROCEEDING                                            | CC |
| 13 | ← | ALERTING                                                   | CC |
| 14 | ← | CONNECT                                                    | CC |
| 15 | → | CONNECT ACKNOWLEDGE                                        | CC |
| 16 |   | Make the UE to alternate between the active and held calls |    |
| 17 | → | HOLD                                                       | CC |
| 18 | → | FACILITY                                                   | CC |
| 19 | ← | HOLD ACKNOWLEDGE                                           | CC |
| 20 | ← | FACILITY                                                   | CC |

#### 7.2.3.3.1.9.4 Specific message contents

All Specific message contents shall be referred to clause 9 with the following exceptions.

##### FACILITY with Invoke component (Step 3)

| Information Element              | Value/remark                                                        |
|----------------------------------|---------------------------------------------------------------------|
| Protocol discriminator           | 0011 B (call control; call related SS messages)                     |
| Transaction identifier           | The same value that has been used in Call A-B, Call A-C or Call A-D |
| Message type                     | xx11 1010 B, bits 7 and 8 are not checked                           |
| Facility IE                      |                                                                     |
| - Length of Facility IE contents | 8                                                                   |
| - Component type tag             | 1010 0001 B (invoke)                                                |
| - Component length               | 6                                                                   |
| - Invoke ID tag                  | 0000 0010 B (invoke ID)                                             |
| - Invoke ID length               | 1                                                                   |
| - Invoke ID                      | arbitrary integer value.                                            |
| - Operation Code tag             | 0000 0010 B                                                         |
| - Operation Code length          | 1                                                                   |
| - Operation Code                 | 0111 1100 B (BuildMPTY)                                             |
| - Parameters                     | not present                                                         |

##### FACILITY with Return Result component (Step 4)

| Information Element              | Value/remark                                    |
|----------------------------------|-------------------------------------------------|
| Protocol discriminator           | 0011 B (call control; call related SS messages) |
| Transaction identifier           | The same value that has been used in step 3     |
| Message Type                     | 0011 1010 B                                     |
| Facility IE                      |                                                 |
| - Length of Facility IE contents | 5                                               |
| - Component type tag             | 1010 0010 B (return result)                     |
| - Component length               | 3                                               |
| - Invoke ID tag                  | 0000 0010 B (invoke ID)                         |
| - Invoke ID length               | 1                                               |
| - Invoke ID                      | The same value that has been used in step 3     |
| - Operation Code tag             | not present                                     |
| - Operation Code length          | not present                                     |
| - Operation Code                 | not present                                     |
| - Parameters                     | not present                                     |

##### FACILITY with Invoke component (Step 6)

| Information Element    | Value/remark                                                        |
|------------------------|---------------------------------------------------------------------|
| Protocol discriminator | 0011 B (call control; call related SS messages)                     |
| Transaction identifier | The same value that has been used in Call A-B, Call A-C or Call A-D |



| Information Element              | Value/remark                              |
|----------------------------------|-------------------------------------------|
| Message type                     | xx11 1010 B, bits 7 and 8 are not checked |
| Facility IE                      |                                           |
| - Length of Facility IE contents | 8                                         |
| - Component type tag             | 1010 0001 B (invoke)                      |
| - Component length               | 6                                         |
| - Invoke ID tag                  | 0000 0010 B (invoke ID)                   |
| - Invoke ID length               | 1                                         |
| - Invoke ID                      | arbitrary integer value.                  |
| - Operation Code tag             | 0000 0010 B                               |
| - Operation Code length          | 1                                         |
| - Operation Code                 | 0111 1011 B (HoldEMPTY)                   |
| - Parameters                     | not present                               |

## FACILITY with Return Result component (Step 7)

| Information Element              | Value/remark                                    |
|----------------------------------|-------------------------------------------------|
| Protocol discriminator           | 0011 B (call control; call related SS messages) |
| Transaction identifier           | The same value that has been used in step 6     |
| Message Type                     | 0011 1010 B                                     |
| Facility IE                      |                                                 |
| - Length of Facility IE contents | 5                                               |
| - Component type tag             | 1010 0010 B (return result)                     |
| - Component length               | 3                                               |
| - Invoke ID tag                  | 0000 0010 B (invoke ID)                         |
| - Invoke ID length               | 1                                               |
| - Invoke ID                      | The same value that has been used in step 6     |
| - Operation Code tag             | not present                                     |
| - Operation Code length          | not present                                     |
| - Operation Code                 | not present                                     |
| - Parameters                     | not present                                     |

## HOLD (Step 17)

| Information Element    | Value/remark                                    |
|------------------------|-------------------------------------------------|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-E   |
| Message type           | xx01 1000 B, bits 7 and 8 are not checked       |

## FACILITY with Invoke component (Step 18)

| Information Element              | Value/remark                                                        |
|----------------------------------|---------------------------------------------------------------------|
| Protocol discriminator           | 0011 B (call control; call related SS messages)                     |
| Transaction identifier           | The same value that has been used in Call A-B, Call A-C or Call A-D |
| Message type                     | xx11 1010 B, bits 7 and 8 are not checked                           |
| Facility IE                      |                                                                     |
| - Length of Facility IE contents | 8                                                                   |
| - Component type tag             | 1010 0001 B (invoke)                                                |
| - Component length               | 6                                                                   |
| - Invoke ID tag                  | 0000 0010 B (invoke ID)                                             |
| - Invoke ID length               | 1                                                                   |
| - Invoke ID                      | arbitrary integer value.                                            |
| - Operation Code tag             | 0000 0010 B                                                         |
| - Operation Code length          | 1                                                                   |
| - Operation Code                 | 0111 1010 B (RetrieveEMPTY)                                         |
| - Parameters                     | not present                                                         |

## HOLD ACKNOWLEDGE (Step 19)

| Information Element    | Value/remark                                    |
|------------------------|-------------------------------------------------|
| Protocol discriminator | 0011 B (call control; call related SS messages) |
| Transaction identifier | The same value that has been used in Call A-E   |
| Message type           | 0001 1001 B                                     |

## FACILITY with Return Result component (Step 20)

| Information Element              | Value/remark                                    |
|----------------------------------|-------------------------------------------------|
| Protocol discriminator           | 0011 B (call control; call related SS messages) |
| Transaction identifier           | The same value that has been used in step 18    |
| Message Type                     | 0011 1010 B                                     |
| Facility IE                      |                                                 |
| - Length of Facility IE contents | 5                                               |
| - Component type tag             | 1010 0010 B (return result)                     |
| - Component length               | 3                                               |
| - Invoke ID tag                  | 0000 0010 B (invoke ID)                         |
| - Invoke ID length               | 1                                               |
| - Invoke ID                      | The same value that has been used in step 18    |
| - Operation Code tag             | not present                                     |
| - Operation Code length          | not present                                     |
| - Operation Code                 | not present                                     |
| - Parameters                     | not present                                     |

7.2.3.3.1.10 Call A-B and Call A-C in state U10 "Active" with Auxiliary state "Call in MPTY" and Call A-D in state U7 "Call received"

7.2.3.3.1.10.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.3.1.10.2 Definition of system information messages

The default system information messages are used.

7.2.3.3.1.10.3 Procedure

The procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                                                                                                                                                                                                                                                      | Comments                                                              |
|------|-----------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|      | UE        | SS |                                                                                                                                                                                                                                                              |                                                                       |
| 1    |           |    | The UE is made to have a MultiParty call to two destinations (Call A-B and Call A-C) active. Both call states shall be U10 "Active" with auxiliary state "Call in MPTY".<br>A mobile terminating call is set up between the UE and destination D (Call A-D). | This state is achieved by the procedure given in section 7.2.3.3.1.5. |
| 2    | ←         |    | SETUP                                                                                                                                                                                                                                                        | CC                                                                    |
| 3    | →         |    | CALL CONFIRMED                                                                                                                                                                                                                                               | CC                                                                    |
| 4    | →         |    | ALERTING                                                                                                                                                                                                                                                     | CC                                                                    |

7.2.3.3.1.10.4 Specific message contents

All Specific message contents shall be referred to clause 9.

SETUP (Step 2)

| Information Element    | Value/remark                                           |
|------------------------|--------------------------------------------------------|
| Protocol discriminator | 0011 B (call control; call related SS messages)        |
| Transaction identifier | A value that has not been used in Call A-B or Call A-C |
| Message type           | 0000 0101 B                                            |
| BC repeat indicator    | not present                                            |

| Information Element                        | Value/remark |
|--------------------------------------------|--------------|
| Bearer capability 1                        | Present      |
| - Bearer capability IEI                    | 0000 0100 B  |
| - Length of the bearer capability contents | 1            |
| - octet 3                                  |              |
| - Extension                                | 1 B          |
| - Radio Channel Requirement                | 01 B         |
| - Coding Standard                          | 0 B          |
| - Transfer Mode                            | 0 B          |
| - Information Transfer Capability          | 000 B        |
| Bearer capability 2                        | not present  |
| Facility                                   | not present  |
| Progress indicator                         | not present  |
| Signal                                     | Present      |
| - Signal IEI                               | 0011 0100 B  |
| - Signal Value                             | 0000 0111 B  |
| Calling party BCD Number                   | not present  |
| Calling party sub-Address                  | not present  |
| Called party BCD Number                    | not present  |
| Called party sub-Address                   | not present  |
| Redirecting party BCD number               | not present  |
| Redirecting party sub-address              | not present  |
| LLC repeat indicator                       | not present  |
| Low layer Compatibility I                  | not present  |
| Low layer Compatibility II                 | not present  |
| HLC repeat indicator                       | not present  |
| High layer Compatibility i                 | not present  |
| High layer Compatibility ii                | not present  |
| User-user                                  | not present  |
| Priority                                   | not present  |
| Alert                                      | not present  |
| Network Call Control Capabilities          | not present  |
| Cause of No CLI                            | not present  |
| Backup bearer capability                   | not present  |

## 7.2.4 Session setup

### 7.2.4.1 Generic session set up procedure for mobile terminating packet switched sessions

#### 7.2.4.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

#### 7.2.4.1.2 Definition of system information messages

The default system information messages are used.

#### 7.2.4.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                       | Comments  |
|------|-----------|----|-------------------------------|-----------|
|      | UE        | SS |                               |           |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)     | Broadcast |
| 2    | ←         |    | PAGING TYPE1 (PCCH)           | Paging    |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH) | RRC       |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)   | RRC       |

|    |   |                                       |                      |
|----|---|---------------------------------------|----------------------|
| 5  | → | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                  |
| 6  | → | SERVICE REQUEST                       | GMM                  |
| 7  | ← | AUTHENTICATION AND CIPHERING REQUEST  | GMM                  |
| 8  | → | AUTHENTICATION AND CIPHERING RESPONSE | GMM                  |
| 9  | ← | SECURITY MODE COMMAND                 | RRC                  |
| 10 | → | SECURITY MODE COMPLETE                | RRC                  |
| 11 | ← | REQUEST PDP CONTEXT ACTIVATION        | SM                   |
| 12 | → | ACTIVATE PDP CONTEXT REQUEST          | SM ( NOTE 1, NOTE 2) |
| 13 | ← | RADIO BEARER SETUP                    | RRC RAB SETUP        |
| 14 | → | RADIO BEARER SETUP COMPLETE           | RRC                  |
| 15 | ← | ACTIVATE PDP CONTEXT ACCEPT           | SM                   |

NOTE 1: The UE implemented according to the Rel-7 and earlier versions of the specification may include static PDP address. The UE implemented according to the Rel-8 and later versions of the specification shall not include the PDP address but the PDP address allocation is dynamic and shall be handled by the SS by including the IPv4 PDP address (set as per PIXIT) in the ACTIVATE PDP CONTEXT ACCEPT message. In UTRA-EUTRA test cases IPv4 and/or IPv6 address (set as per PIXIT) is included in the ACTIVATE PDP CONTEXT ACCEPT message.

NOTE 2: UEs supporting S1 mode shall indicate subscribed, interactive or background traffic class in the QoS requested. UEs not supporting S1 mode should indicate subscribed, interactive or background traffic class in the QoS requested.

NOTE 3: In RAN Assisted WLAN interworking test cases in the ACTIVATE PDP CONTEXT ACCEPT message WLAN Offload Indication is set as '0010'B indicating Offloading of the PDN connection is allowed.

#### 7.2.4.1.4 Specific message contents

All Specific message contents shall be referred to clause 9.

#### 7.2.4.2 Generic session set up procedure for mobile originating packet switched sessions

##### 7.2.4.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

##### 7.2.4.2.2 Definition of system information messages

The default system information messages are used.

##### 7.2.4.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                               | Comments  |
|------|-----------|----|---------------------------------------|-----------|
|      | UE        | SS |                                       |           |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast |
| 2    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC       |
| 3    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC       |
| 4    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC       |
| 5    | →         |    | SERVICE REQUEST                       | GMM       |
| 6    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM       |
| 7    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM       |
| 8    | ←         |    | SECURITY MODE COMMAND                 | RRC       |

|    |   |                              |                     |
|----|---|------------------------------|---------------------|
| 9  | → | SECURITY MODE COMPLETE       | RRC                 |
| 10 | → | ACTIVATE PDP CONTEXT REQUEST | SM (NOTE 1, NOTE 2) |
| 11 | ← | RADIO BEARER SETUP           | RRC RAB SETUP       |
| 12 | → | RADIO BEARER SETUP COMPLETE  | RRC                 |
| 13 | ← | ACTIVATE PDP CONTEXT ACCEPT  | SM                  |

NOTE 1: The UE implemented according to the Rel-7 and earlier versions of the specification may include static PDP address. The UE implemented according to the Rel-8 and later versions of the specification shall not include the PDP address but the PDP address allocation is dynamic and shall be handled by the SS by including the IPv4 PDP address (set as per PIXIT) in the ACTIVATE PDP CONTEXT ACCEPT message. In UTRA-EUTRA test cases IPv4 and/or IPv6 address (set as per PIXIT) in the ACTIVATE PDP CONTEXT ACCEPT message.

NOTE 2: UEs supporting S1 mode shall indicate subscribed, interactive or background traffic class in the QoS requested. UEs not supporting S1 mode should indicate subscribed, interactive or background traffic class in the QoS requested.

NOTE 3: In RAN Assisted WLAN interworking test cases in the ACTIVATE PDP CONTEXT ACCEPT message WLAN Offload Indication is set as '0010'B indicating Offloading of the PDN connection is allowed.

#### 7.2.4.2.4 Specific message contents

All Specific message contents shall be referred to clause 9.

### 7.2.5 IMS Emergency Call setup

#### 7.2.5.1 Generic IMS Emergency call set up procedure for mobile originating packet switched sessions – Normal Service

##### 7.2.5.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in Registered, Idle Mode state (State 7).
- The Test-USIM shall be inserted and is capable of making Emergency Call.

##### 7.2.5.1.2 Definition of system information messages

The default system information messages are used.

##### 7.2.5.1.3 Procedure

The Emergency IMS Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.

| Step | Direction |    | Message                                                                    | Comments             |
|------|-----------|----|----------------------------------------------------------------------------|----------------------|
|      | UE        | SS |                                                                            |                      |
| 1    |           | ←  | SYSTEM INFORMATION (BCCH)                                                  | Broadcast            |
| 2    |           |    | Make the UE attempt an IMS Emergency call                                  |                      |
| 3    |           | →  | RRC CONNECTION REQUEST (CCCH) with 'establishmentCause' set to 'emergency' | NOTE 1               |
| 4    |           | ←  | RRC CONNECTION SETUP (CCCH)                                                | RRC                  |
| 5    |           | →  | RRC CONNECTION SETUP COMPLETE (DCCH)                                       | RRC                  |
| 6    |           | →  | SERVICE REQUEST                                                            | GMM                  |
| 7    |           | ←  | SECURITY MODE COMMAND                                                      | RRC                  |
| 8    |           | →  | SECURITY MODE COMPLETE                                                     | RRC                  |
| 9    |           | →  | ACTIVATE PDP CONTEXT REQUEST with 'Request Type' set to 'Emergency'        | SM ( NOTE 2, NOTE 3) |

|    |   |                                          |                                                                                                                                                                                                                                                                                 |
|----|---|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10 | ← | RADIO BEARER SETUP                       | The SS establishes the AM RAB for IMS signalling<br><br>EXCEPTION: In parallel to the events described in steps 15 to 21 below, the behaviour in steps 13 and 14 occurs<br>Steps 1-4 defined in annex C.20 in TS 34.229-1 [46]<br>Steps defined in annex C22 in TS 34.229-1[46] |
| 11 | → | RADIO BEARER SETUP COMPLETE              |                                                                                                                                                                                                                                                                                 |
| 12 |   |                                          |                                                                                                                                                                                                                                                                                 |
| 13 |   |                                          | The SS accepts the PDP context                                                                                                                                                                                                                                                  |
| 14 |   |                                          |                                                                                                                                                                                                                                                                                 |
| 15 | ← | ACTIVATE PDP CONTEXT ACCEPT              |                                                                                                                                                                                                                                                                                 |
| 16 | ← | REQUEST SECONDARY PDP CONTEXT ACTIVATION | The SS requests a Secondary PDP context activation and starts timer T3385 (NOTE 4)<br>The UE requests a Secondary PDP context activation, enters the state PDP-ACTIVE-PENDING and starts timer T3380 .(NOTE 4)<br>The SS stops timer T3385                                      |
| 17 | → | ACTIVATE SECONDARY PDP CONTEXT REQUEST   |                                                                                                                                                                                                                                                                                 |
| 18 |   |                                          |                                                                                                                                                                                                                                                                                 |
| 19 | ← | RADIO BEARER SETUP                       | The SS establishes the UM RAB for IMS voice<br><br>The SS accepts the Secondary PDP context activation with the requested QoS                                                                                                                                                   |
| 20 | → | RADIO BEARER SETUP COMPLETE              |                                                                                                                                                                                                                                                                                 |
| 21 | ← | ACTIVATE SECONDARY PDP CONTEXT ACCEPT    |                                                                                                                                                                                                                                                                                 |

NOTE 1: The RRC establishment cause will be set to "Emergency".

NOTE 2: The UE shall not include the PDP address but the PDP address allocation is dynamic and shall be handled by the SS by including the IPv4 PDP and/or IPv6 address (set as per PIXIT) in the ACTIVATE PDP CONTEXT ACCEPT message.

NOTE 3: The UEs supporting S1 mode shall include interactive or background traffic class in the QoS requested. The UEs not supporting S1 mode should include interactive or background traffic class in the QoS requested.

NOTE 4: 'Conversational' is included in the QoS in the REQUEST SECONDARY PDP CONTEXT ACTIVATION and in the ACTIVATE SECONDARY PDP CONTEXT REQUEST message sent by the UE.

#### 7.2.5.1.4 Specific message contents

All Specific message contents shall be referred to clause 9.

Step 5: The UE transmits an *RRCConnectionSetupComplete* message to confirm the successful completion of the connection establishment and

Step 6: The UE transmits the SERVICE REQUEST message.

Step 7: The SS transmits a *SecurityModeCommand* message to activate AS security.

Step 8: The UE transmits a *SecurityModeComplete* message and establishes the initial security configuration.

Step 9: UE transmits an Activate PDP Context Request message with Request Type set to Emergency with a PDP type number "IPv4v6 address" in the Requested PDP address information element. See TS 34.229 Annex C.17

Step 10: SS sends Radio Bearer Setup message - Use the same message as specified for "Packet to CELL\_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH", condition A17c.

Step 19: Use the following specific message content:

#### RADIO BEARER SETUP

| Information Element                     | Value/remark                                                                                                                                                       |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                            |                                                                                                                                                                    |
| RRC transaction identifier              | Arbitrarily selects an integer between 0 and 3                                                                                                                     |
| Integrity check info                    |                                                                                                                                                                    |
| - message authentication code           | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number           | SS provides the value of this IE, from its internal counter.                                                                                                       |
| Integrity protection mode info          | Not Present                                                                                                                                                        |
| Ciphering mode info                     | Not Present                                                                                                                                                        |
| Activation time                         | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$                                                                                                          |
| New U-RNTI                              | Not Present                                                                                                                                                        |
| New C-RNTI                              | Not Present                                                                                                                                                        |
| New DSCH-RNTI                           | Not Present                                                                                                                                                        |
| New H-RNTI                              | '1010 1010 1010 1010'                                                                                                                                              |
| New Primary E-RNTI                      | '1010 1010 1010 1010'                                                                                                                                              |
| New Secondary E-RNTI                    | Not Present                                                                                                                                                        |
| RRC State indicator                     | CELL_DCH                                                                                                                                                           |
| UTRAN DRX cycle length coefficient      | Not Present                                                                                                                                                        |
| CN information info                     | Not Present                                                                                                                                                        |
| URA identity                            | Not Present                                                                                                                                                        |
| RNC support for change of UE capability | Not Present                                                                                                                                                        |
| CHOICE Specification mode               | Complete specification                                                                                                                                             |
| - Signalling RB information to setup    | Not Present                                                                                                                                                        |
| - RAB information for setup             |                                                                                                                                                                    |
| - RAB info                              | (Conversational UM DTCH for PS domain)                                                                                                                             |
| - RAB identity                          | 0000 0110B                                                                                                                                                         |
|                                         | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.                                                                   |
| - CN domain identity                    | PS domain                                                                                                                                                          |
| - NAS Synchronization Indicator         | Not Present                                                                                                                                                        |
| - Re-establishment timer                | useT314                                                                                                                                                            |
| - RB information to setup               |                                                                                                                                                                    |
| - RB identity                           | 27                                                                                                                                                                 |
| - PDCP info                             |                                                                                                                                                                    |
| - Support for lossless SRNS relocation  | FALSE                                                                                                                                                              |
| - Max PDCP SN window size               | Not present                                                                                                                                                        |
| - PDCP PDU header                       | Present                                                                                                                                                            |
| - Header compression information        |                                                                                                                                                                    |
| - CHOICE algorithm type                 |                                                                                                                                                                    |
| - RFC3095                               |                                                                                                                                                                    |
| - Profiles                              | 2 profiles                                                                                                                                                         |
| - Profile instance                      | 1                                                                                                                                                                  |
| - Profile instance                      | 2                                                                                                                                                                  |
| - Uplink                                |                                                                                                                                                                    |
| - Max_CID                               | 15                                                                                                                                                                 |
| - Downlink                              |                                                                                                                                                                    |
| - Max_CID                               | 15                                                                                                                                                                 |
| - Reverse-Decompression_Depth           | 0                                                                                                                                                                  |
| - CHOICE RLC info type                  | RLC info                                                                                                                                                           |
| - CHOICE Uplink RLC mode                | UM RLC                                                                                                                                                             |
| - Transmission RLC discard              | Not present                                                                                                                                                        |
| - CHOICE Downlink RLC mode              | UM RLC                                                                                                                                                             |

|                                                             |                                                                                                             |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| - DL UM RLC LI size                                         | 7                                                                                                           |
| - DL Reception Window Size                                  | 32                                                                                                          |
| - One sided RLC re-establishment                            | FALSE                                                                                                       |
| - Alternative E-bit interpretation                          | Not present                                                                                                 |
| - RB mapping info                                           |                                                                                                             |
| - Information for each multiplexing option                  | 1 RBMuxOption                                                                                               |
| - RLC logical channel mapping indicator                     | Not Present                                                                                                 |
| - Number of uplink RLC logical channels                     | 1                                                                                                           |
| - Uplink transport channel type                             | E-DCH                                                                                                       |
| - Logical channel identity                                  | 9                                                                                                           |
| - E-DCH MAC-d flow identity                                 | 4                                                                                                           |
| - CHOICE RLC PDU size                                       | Fixed size                                                                                                  |
| - DDI                                                       | 7                                                                                                           |
| - RLC PDU size list                                         | 12 RLC PDU sizes                                                                                            |
| - RLC PDU size                                              | 96 bits                                                                                                     |
| - RLC PDU size                                              | 112 bits                                                                                                    |
| - RLC PDU size                                              | 144 bits                                                                                                    |
| - RLC PDU size                                              | 160 bits                                                                                                    |
| - RLC PDU size                                              | 176 bits                                                                                                    |
| - RLC PDU size                                              | 192 bits                                                                                                    |
| - RLC PDU size                                              | 208 bits                                                                                                    |
| - RLC PDU size                                              | 224 bits                                                                                                    |
| - RLC PDU size                                              | 288 bits                                                                                                    |
| - RLC PDU size                                              | 296 bits                                                                                                    |
| - RLC PDU size                                              | 312 bits                                                                                                    |
| - RLC PDU size                                              | 336 bits                                                                                                    |
| - Include in scheduling info                                | TRUE                                                                                                        |
| - MAC logical channel priority                              | 8                                                                                                           |
| - Downlink RLC logical channel info                         |                                                                                                             |
| - Number of downlink RLC logical channels                   | 1                                                                                                           |
| - Downlink transport channel type                           | HS-DSCH                                                                                                     |
| - DL DCH Transport channel identity                         | Not present                                                                                                 |
| - DL DSCH Transport channel identity                        | Not present                                                                                                 |
| - DL HS-DSCH MAC-d flow identity                            | 3                                                                                                           |
| - Logical channel identity                                  | Not Present                                                                                                 |
| RB information to reconfigure list                          | Not Present                                                                                                 |
| RB information to be affected                               | Not Present                                                                                                 |
| Downlink counter synchronization info                       | Not Present                                                                                                 |
| PDCP ROHC target mode                                       |                                                                                                             |
| - Target Mode                                               | O-mode                                                                                                      |
| UL Transport channel information for all transport channels | Not Present                                                                                                 |
| Deleted UL TrCH information                                 | Not Present                                                                                                 |
| Added or Reconfigured UL TrCH information                   | 1 E-DCH with one DCCH MAC-d flow and two DTCH MAC-d flows                                                   |
| - Uplink transport channel type                             | E-DCH                                                                                                       |
| - CHOICE UL parameters                                      | E-DCH                                                                                                       |
| - UL MAC header type                                        | Not present                                                                                                 |
| - UL MAC header type                                        | MAC-e/es                                                                                                    |
| - CHOICE mode                                               | FDD                                                                                                         |
| - E-DCH Transmission Time Interval                          | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI |
| - HARQ info for E-DCH                                       |                                                                                                             |
| - HARQ RV Configuration                                     | rvtable                                                                                                     |
| - Added or reconfigured E-DCH MAC-d flow                    | (for DCCH)                                                                                                  |
| - E-DCH MAC-d flow identity                                 | 1                                                                                                           |
| - E-DCH MAC-d flow power offset                             | 0                                                                                                           |
| - E-DCH MAC-d flow maximum number of retransmissions        | 7                                                                                                           |
| - E-DCH MAC-d flow multiplexing list                        | Not Present                                                                                                 |
| - CHOICE transmission grant type                            | Non-scheduled grant info                                                                                    |
| - Max MAC-e PDU contents size                               | 168 bits                                                                                                    |
| - 2 ms non-scheduled transmission grant                     | Not Present                                                                                                 |
| HARQ process allocation                                     |                                                                                                             |
| - Added or reconfigured E-DCH MAC-d flow                    | (for first DTCH)                                                                                            |
| - E-DCH MAC-d flow identity                                 | 2                                                                                                           |
| - E-DCH MAC-d flow power offset                             | 0                                                                                                           |



|                                                                   |                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - E-DCH MAC-d flow maximum number of retransmissions              | 7                                                                                                                                                                                                                                             |
| - E-DCH MAC-d flow multiplexing list                              | Not Present                                                                                                                                                                                                                                   |
| - CHOICE transmission grant type                                  | Scheduled grant info                                                                                                                                                                                                                          |
| - Added or reconfigured E-DCH MAC-d flow                          | (for second DTCH)                                                                                                                                                                                                                             |
| - E-DCH MAC-d flow identity                                       | 3                                                                                                                                                                                                                                             |
| - E-DCH MAC-d flow power offset                                   | 0                                                                                                                                                                                                                                             |
| - E-DCH MAC-d flow maximum number of retransmissions              | 7                                                                                                                                                                                                                                             |
| - CHOICE transmission grant type                                  | Scheduled grant info                                                                                                                                                                                                                          |
| DL Transport channel information common for all transport channel | Not Present                                                                                                                                                                                                                                   |
| Deleted DL TrCH information                                       | Not Present                                                                                                                                                                                                                                   |
| Added or Reconfigured DL TrCH information                         | DCH for DCCH and HS-DSCH for 3 DTCHs                                                                                                                                                                                                          |
| - Downlink transport channel type                                 | DCH                                                                                                                                                                                                                                           |
| - DL Transport channel identity                                   | 10                                                                                                                                                                                                                                            |
| - CHOICE DL parameters                                            | Explicit                                                                                                                                                                                                                                      |
| - TFS                                                             |                                                                                                                                                                                                                                               |
| - CHOICE Transport channel type                                   | Dedicated transport channels                                                                                                                                                                                                                  |
| - Dynamic Transport format information                            |                                                                                                                                                                                                                                               |
| - RLC Size                                                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                        |
| - Number of TBs and TTI List                                      | (This IE is repeated for TFI number.)                                                                                                                                                                                                         |
| - Transmission Time Interval                                      | Not Present                                                                                                                                                                                                                                   |
| - Number of Transport blocks                                      | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                        |
| - CHOICE Logical channel list                                     | All                                                                                                                                                                                                                                           |
| - Semi-static Transport Format information                        |                                                                                                                                                                                                                                               |
| - Transmission time interval                                      | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                        |
| - Type of channel coding                                          | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                        |
| - Coding Rate                                                     | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                        |
| - Rate matching attribute                                         | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                        |
| - CRC size                                                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                        |
| - DCH quality target                                              |                                                                                                                                                                                                                                               |
| - BLER Quality value                                              | -20 (-2.0)                                                                                                                                                                                                                                    |
| - Downlink transport channel type                                 | HS-DSCH                                                                                                                                                                                                                                       |
| - DL Transport channel identity                                   | Not Present                                                                                                                                                                                                                                   |
| - CHOICE DL parameters                                            | HS-DSCH                                                                                                                                                                                                                                       |
| - HARQ Info                                                       |                                                                                                                                                                                                                                               |
| - Number of Processes                                             | Reference to clause 6.10.2.4.5 Parameter Set                                                                                                                                                                                                  |
| - CHOICE <i>Memory Partitioning</i>                               | Implicit                                                                                                                                                                                                                                      |
| - CHOICE <i>DL MAC header type</i>                                | MAC-ehs                                                                                                                                                                                                                                       |
| - Added or reconfigured MAC-ehs reordering                        |                                                                                                                                                                                                                                               |
| queue                                                             |                                                                                                                                                                                                                                               |
| - MAC-ehs queue to add or reconfigure list                        | (three queues)                                                                                                                                                                                                                                |
| - MAC-ehs queue Id                                                | 2 (for first DTCH)                                                                                                                                                                                                                            |
| - T1                                                              | 50                                                                                                                                                                                                                                            |
| - MAC-ehs window size                                             | 16                                                                                                                                                                                                                                            |
| - MAC-ehs queue Id                                                | 3 (for second DTCH)                                                                                                                                                                                                                           |
| - T1                                                              | 50                                                                                                                                                                                                                                            |
| - MAC-ehs window size                                             | 16                                                                                                                                                                                                                                            |
| - DCH quality target                                              | Not present                                                                                                                                                                                                                                   |
| Frequency info                                                    |                                                                                                                                                                                                                                               |
| - UARFCN uplink (Nu)                                              | Reference to clause 5.1 Test frequencies. This IE should be present, if the default duplex distance defined for the operating frequency band is not used and frequency is different from the current frequency, otherwise set to Not Present. |
| - UARFCN downlink (Nd)                                            | Reference to clause 5.1 Test frequencies if frequency is different from the current frequency otherwise set to Not Present.                                                                                                                   |
| Maximum allowed UL TX power                                       | 33dBm                                                                                                                                                                                                                                         |
| Uplink DPCH info                                                  |                                                                                                                                                                                                                                               |
| - Uplink DPCH power control info                                  |                                                                                                                                                                                                                                               |
| - DPCCH power offset                                              | -40 (-80dB)                                                                                                                                                                                                                                   |
| - PC Preamble                                                     | 1 frame                                                                                                                                                                                                                                       |
| - SRB delay                                                       | 7 frames                                                                                                                                                                                                                                      |
| - Power Control Algorithm                                         | Algorithm1                                                                                                                                                                                                                                    |
| - TPC step size                                                   | 0 (1dB)                                                                                                                                                                                                                                       |

|                                                 |                                                 |
|-------------------------------------------------|-------------------------------------------------|
| - $\Delta_{ACK}$                                | 3                                               |
| - $\Delta_{NACK}$                               | 3                                               |
| - Ack-Nack repetition factor                    | 1                                               |
| - HARQ_preamble_mode                            | 0                                               |
| - Scrambling code type                          | Long                                            |
| - Scrambling code number                        | 0 (0 to 16777215)                               |
| - Number of DPDCH                               | 0                                               |
| - spreading factor                              | Not Present                                     |
| - TFCI existence                                | FALSE                                           |
| - Number of FBI bit                             | Not Present                                     |
| - Puncturing Limit                              | Not Present                                     |
| - Number of TPC bits                            | Not Present                                     |
| E-DCH info                                      |                                                 |
| - MAC-es/e reset indicator                      | TRUE                                            |
| - E-DPCCH info                                  |                                                 |
| - E-DPCCH/DPCCH power offset                    | 0                                               |
| - Happy bit delay condition                     | 100 ms                                          |
| - E-TFC Boost Info                              | Not Present                                     |
| - E-DPDCH power interpolation                   | Not Present                                     |
| - E-DPDCH info                                  |                                                 |
| - E-TFCI table index                            | 0                                               |
| - E-DCH minimum set E-TFCI                      | 9                                               |
| - Reference E-TFCIs                             | 2 E-TFCIs                                       |
| - Reference E-TFCI                              | 11                                              |
| - Reference E-TFCI PO                           | 4                                               |
| - Reference E-TFCI                              | 83                                              |
| - Reference E-TFCI PO                           | 16                                              |
| - Maximum channelisation codes                  | 2sf4                                            |
| - PLnon-max                                     | 0.84                                            |
| - Scheduling Information Configuration          |                                                 |
| - Periodicity for Scheduling Info – no grant    | Not present                                     |
| - Periodicity for Scheduling Info – grant       | Not present                                     |
| - Power Offset for Scheduling Info              | 0                                               |
| - 3-Index-Step Threshold                        | Not present                                     |
| - 2-Index-Step Threshold                        | Not present                                     |
| - Scheduled Transmission configuration          |                                                 |
| - 2ms scheduled transmission grant HARQ process | Not present                                     |
| allocation                                      |                                                 |
| - Serving Grant                                 | Not present                                     |
| -UL 16QAM settings                              | Not Present                                     |
| Downlink HS-PDSCH Information                   |                                                 |
| - HS-SCCH Info                                  |                                                 |
| - CHOICE mode                                   | FDD                                             |
| - DL Scrambling Code                            | Not present                                     |
| - HS-SCCH Channelisation Code Information       |                                                 |
| - HS-SCCH Channelisation Code                   | 7                                               |
| - Measurement Feedback Info                     |                                                 |
| - CHOICE mode                                   | FDD                                             |
| - POhsdsch                                      | 6 dB                                            |
| - CQI Feedback cycle, k                         | 4 ms                                            |
| - CQI repetition factor                         | 1                                               |
| - $\Delta_{CQI}$                                | 5 (corresponds to 0dB in relative power offset) |
| - CHOICE mode                                   | FDD (no data)                                   |
| - Downlink 64QAM configured                     | TRUE                                            |
| - HS-DSCH TB size table                         | Not present                                     |
| Downlink information common for all radio links |                                                 |
| - Downlink F-DPCH info common for all RL        |                                                 |
| - Timing Indication                             | Maintain                                        |
| - Timing maintained Synchronization indicator   | FALSE                                           |
| - Downlink F-DPCH power control information     |                                                 |
| - DPC mode                                      | 0 (single)                                      |
| - TPC command error rate target                 | 0.04                                            |
| - CHOICE mode                                   | FDD                                             |
| - DPCH compressed mode info                     | Not Present                                     |
| - TX Diversity mode                             | None                                            |
| - Default DPCH Offset Value                     | Not Present                                     |
| - MAC-hs reset indicator                        | Not Present                                     |
| Downlink information for each radio link list   |                                                 |

|                                              |                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------|
| - Downlink information for each radio link   | FDD                                                                           |
| - Choice mode                                |                                                                               |
| - Primary CPICH info                         | Ref. to the Default setting in clause 6.1 (FDD)                               |
| - Primary scrambling code                    | TRUE                                                                          |
| - Serving HS-DSCH radio link indicator       | TRUE                                                                          |
| - Serving E-DCH radio link indicator         | Not Present                                                                   |
| - Downlink DPCH info for each RL             |                                                                               |
| - Downlink F-DPCH info for each RL           | Primary CPICH may be used                                                     |
| - Primary CPICH usage for channel estimation | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |
| - F-DPCH frame offset                        | 3 if UE supports enhanced F-DPCH, otherwise Not Present                       |
| - F-DPCH slot format                         | Not Present                                                                   |
| - Secondary CPICH info                       | Not Present                                                                   |
| - Secondary scrambling code                  | Not Present                                                                   |
| - Code number                                | 12                                                                            |
| - TPC combination index                      | 0                                                                             |
| - E-AGCH Info                                |                                                                               |
| - E-AGCH Channelisation Code                 | 10                                                                            |
| - CHOICE E-HICH Information                  |                                                                               |
| - E-HICH Information                         |                                                                               |
| - Channelisation code                        | 4                                                                             |
| - Signature sequence                         | 1                                                                             |
| - CHOICE E-RGCH Information                  | Not Present                                                                   |
| MBMS PL Service Restriction Information      | Not Present                                                                   |

## 7.2.5.2 Generic IMS Emergency call set up procedure for mobile originating packet switched sessions – Limited Service

### 7.2.5.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE is in GMM-DEREGISTERED.LIMITED-SERVICE state. .
- The Test-USIM shall be inserted and is capable of making Emergency Call.

### 7.2.5.2.2 Definition of system information messages

The default system information messages are used, except the SIB3 contents specified in 7.2.5.2.4.

### 7.2.5.2.3 Procedure

The establishment of Emergency IMS Call Set-up procedure is assumed to be mobile originated.

| Step | Direction |    | Message                                                                    | Comments |
|------|-----------|----|----------------------------------------------------------------------------|----------|
|      | UE        | SS |                                                                            |          |
| 1    |           |    | Make the UE attempt an IMS Emergency call                                  |          |
| 2    | →         |    | RRC CONNECTION REQUEST (CCCH) with 'establishmentCause' set to 'emergency' |          |
| 3    | ←         |    | RRC CONNECTION SETUP (CCCH)                                                | RRC      |
| 4    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)                                       | RRC      |
| 5    | →         |    | ATTACH REQUEST with Attach Type set to "Emergency Attach"                  | GMM      |
| 6    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST                                       | GMM      |
| 7    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE                                      | GMM      |
| 8    | ←         |    | SECURITY MODE COMMAND                                                      | RRC      |
| 9    | →         |    | SECURITY MODE COMPLETE                                                     | RRC      |
| 10   | ←         |    | ATTACH ACCEPT                                                              | GMM      |
| 11   | →         |    | ATTACH COMPLETE                                                            | GMM      |

|    |   |                                                                     |                                                                                                                         |
|----|---|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 12 | → | ACTIVATE PDP CONTEXT REQUEST with 'Request Type' set to 'Emergency' | SM ( NOTE 1, NOTE 2)                                                                                                    |
| 13 | ← | RADIO BEARER SETUP                                                  | The SS establishes the AM RAB for IMS signalling                                                                        |
| 14 | → | RADIO BEARER SETUP COMPLETE                                         |                                                                                                                         |
| 15 |   |                                                                     | EXCEPTION: In parallel to the events described in steps 17 to 23 below, the behaviour in steps 16 occurs.               |
| 16 |   |                                                                     | Steps defined in annex C22 in TS 34.229-1[46]                                                                           |
| 17 | ← | ACTIVATE PDP CONTEXT ACCEPT                                         | The SS accepts the PDP context                                                                                          |
| 18 | ← | REQUEST SECONDARY PDP CONTEXT ACTIVATION                            | The SS requests a Secondary PDP context activation and starts timer T3385 (NOTE 3)                                      |
| 19 | → | ACTIVATE SECONDARY PDP CONTEXT REQUEST                              | The UE requests a Secondary PDP context activation, enters the state PDP-ACTIVE-PENDING and starts timer T3380 (NOTE 3) |
| 20 |   |                                                                     | The SS stops timer T3385                                                                                                |
| 21 | ← | RADIO BEARER SETUP                                                  | The SS establishes the UM RAB for IMS voice                                                                             |
| 22 | → | RADIO BEARER SETUP COMPLETE                                         |                                                                                                                         |
| 23 | ← | ACTIVATE SECONDARY PDP CONTEXT ACCEPT                               | The SS accepts the Secondary PDP context activation with the requested QoS                                              |

NOTE 1: The UE shall not include the PDP address but the PDP address allocation is dynamic and shall be handled by the SS by including the IPv4 and/or IPv6 PDP address (set as per PIXIT) in the ACTIVATE PDP CONTEXT ACCEPT message.

NOTE 2: The UEs supporting S1 mode shall include interactive or background traffic class in the QoS requested. The UEs not supporting S1 mode should include interactive or background traffic class in the QoS requested.

NOTE 3: 'Conversational' is included in the QoS in the REQUEST SECONDARY PDP CONTEXT ACTIVATION and in the ACTIVATE SECONDARY PDP CONTEXT REQUEST message sent by the UE.

#### 7.2.5.2.4 Specific message contents

All Specific message contents shall be referred to clause 9.

#### SYSTEM INFORMATION BLOCK TYPE 3 (Step 1)

The same content as in default message in TS 34.108 section 6.1.0b with the following exceptions:

| Information Element             | Value/remark                                                                                |
|---------------------------------|---------------------------------------------------------------------------------------------|
| IMS Emergency Support Indicator | This IE specifies the support of IMS emergency call in the cell for limited service mode UE |

Step 4: The UE transmits an *RRCConnectionSetupComplete* message to confirm the successful completion of the connection establishment

#### ATTACH REQUEST (Step 5)

| Information Element             | Value/remark                                |
|---------------------------------|---------------------------------------------|
| Attach Request message identity | Emergency Attach, Follow-on request pending |
| Mobile identity                 | IMSI                                        |

Step 8: The SS transmits a *SecurityModeCommand* message to activate AS security.

Step 9: The UE transmits a *SecurityModeComplete* message and establishes the initial security configuration.

## ATTACH ACCEPT (Step 10)

| Information Element                         | Value/remark                                                                                                                                                  |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency number list                       | 10 numbers (TS 24.008, 10.5.3.13)<br>The numbers shall be different than any of those indicated in TS 22.101 clause 10.1.1 AND the numbers stored in the USIM |
| Network feature support information element | Emergency bearer services supported in lu mode, but not supported in A/Gb mode                                                                                |

Step 12: UE transmits a Activate PDP Context Request message with Request Type set to Emergency with a PDP type number "IPv4v6 address" in the Requested PDP address information element. See TS 34.229 Annex C.17

Step 13: SS sends Radio Bearer Setup message - Use the same message as specified in clause 7.2.5.1.4 step 10

Step 21: SS sends Radio Bearer Setup message - Use the same message as specified in clause 7.2.5.1.4 step 19.

## 7.2.6 IP address allocation

UE IP address is allocated during the mobile originating packet switched sessions procedure referred to 7.2.4.2.

If UE supports IPv4/IPv6 or IPv6, a full IPv6 address is allocated to UE via NAS signalling in the PDP CONTEXT ACCEPT message. Once the PDP context is established, if the UE supports IPv6 it may perform IPv6 Stateless Address Autoconfiguration. The UE sends an **ICMPv6 Router Solicitation** message; as response the network sends an **ICMPv6 Router Advertisement** message.

Depending on the UE configuration there may be unpredictable delay in the start of the Stateless Address Auto configuration procedure. A guarding time of 1.2 sec is granted within which the procedure is expected to start. If the timer expires then the test shall advance to the next specified step in the test sequence.

## 7.3 Test procedures for RF test

NOTE: In general parameters defined for specific test cases in 3GPP TS 34.121 [2] take priority over the default parameters defined in the present document.

### 7.3.1 UE Test States for RF testing

In this clause, the states of the UE for the test are defined. For RF testing the same UE test states as specified in section 7.2.1 apply plus an additional RB Test Mode State. The RB Test Mode State can be reached from the UE States 2, 3 and 7 according to section 7.2.1. For this RB Test Mode State the different protocols shall be in the following states:

|                                                                                                                                      | RRC       | CC   | MM       | SM           | GMM                    |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------|------|----------|--------------|------------------------|
| RB Test Mode State                                                                                                                   | connected | null | see Note | pdp-inactive | same as previous state |
| NOTE: The MM state is "MM connection active" if an RRC connection exists for the CS domain otherwise it is "same as previous state". |           |      |          |              |                        |

### 7.3.2 Test procedure for TX, RX and Performance Requirement (without handover)

#### 7.3.2.1 Initial conditions

System Simulator

- test cases using 1 cell:
- 1cell, default parameters.
- other test cases using this test procedure:
- Number of cells and parameters for specific tests are defined in 3GPP TS 34.121 [2] and take priority over the default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.2.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    | PS                              |
| - CN domain identity                              | GSM-MAP                         |
| - CHOICE CN Type                                  |                                 |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information |                                                     |
| - Secondary CCPCH info               | FDD                                                 |
| - CHOICE mode                        | Not Present                                         |
| - Secondary scrambling code          | FALSE                                               |
| - STTD indicator                     | 64                                                  |
| - Spreading factor                   | 2                                                   |
| - Code number                        | FALSE                                               |
| - Pilot symbol existence             | TRUE (default value)                                |
| - TFCI existence                     | Flexible (default value)                            |
| - Fixed or Flexible position         | Not Present                                         |
| - Timing offset                      | Absence of this IE is equivalent to default value 0 |

### 7.3.2.3 Procedure

#### 7.3.2.3.1 For UE supporting CS

| Step | Direction |    | Message                              | Comments                 |
|------|-----------|----|--------------------------------------|--------------------------|
|      | UE        | SS |                                      |                          |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)            | Broadcast                |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                  | Paging (CS domain, TMSI) |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)        | RRC                      |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)          | RRC                      |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                      |

|    |   |                                 |                                                                                                           |
|----|---|---------------------------------|-----------------------------------------------------------------------------------------------------------|
| 6  | → | PAGING RESPONSE                 | RR                                                                                                        |
| 7  | ← | AUTHENTICATION REQUEST          | MM                                                                                                        |
| 8  | → | AUTHENTICATION RESPONSE         | MM                                                                                                        |
| 9  | ← | SECURITY MODE COMMAND           | RRC                                                                                                       |
| 10 | → | SECURITY MODE COMPLETE          | RRC                                                                                                       |
| 11 | ← | ACTIVATE RB TEST MODE           | TC                                                                                                        |
| 12 | → | ACTIVATE RB TEST MODE COMPLETE  | TC                                                                                                        |
| 13 | ← | RADIO BEARER SETUP              | RRC (RAB SETUP)                                                                                           |
| 14 | → | RADIO BEARER SETUP COMPLETE     | RRC                                                                                                       |
| 15 | ← | CLOSE UE TEST LOOP (DCCH)       | TC (UE test loop mode set up)                                                                             |
| 16 | → | CLOSE UE TEST LOOP COMPLETE     | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 17 | ← | OPEN UE TEST LOOP               | TC                                                                                                        |
| 18 | → | OPEN UE TEST LOOP COMPLETE      | TC                                                                                                        |
| 19 | ← | RRC CONNECTION RELEASE          | RRC                                                                                                       |
| 20 | → | RRC CONNECTION RELEASE COMPLETE | RRC                                                                                                       |

### 7.3.2.3.2 For UE supporting PS only

| Step | Direction |    | Message                               | Comments                                                                                                  |
|------|-----------|----|---------------------------------------|-----------------------------------------------------------------------------------------------------------|
|      | UE        | SS |                                       |                                                                                                           |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                                                                                                 |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (PS domain, P-TMSI)                                                                                |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                                                                                                       |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                                                                                                       |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                                                                                                       |
| 6    | →         |    | SERVICE REQUEST                       | GMM                                                                                                       |
| 7    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                                                       |
| 8    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                                                       |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC                                                                                                       |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                                                       |
| 11   | ←         |    | ACTIVATE RB TEST MODE                 | TC                                                                                                        |
| 12   | →         |    | ACTIVATE RB TEST MODE COMPLETE        | TC                                                                                                        |
| 13   | ←         |    | RADIO BEARER SETUP                    | RRC (RAB SETUP)                                                                                           |
| 14   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                                                                       |
| 15   | ←         |    | CLOSE UE TEST LOOP (DCCH)             | TC (UE test loop mode set up)                                                                             |
| 16   | →         |    | CLOSE UE TEST LOOP COMPLETE           | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 17   | ←         |    | OPEN UE TEST LOOP                     | TC                                                                                                        |
| 18   | →         |    | OPEN UE TEST LOOP COMPLETE            | TC                                                                                                        |
| 19   | ←         |    | RRC CONNECTION RELEASE                | RRC                                                                                                       |
| 20   | →         |    | RRC CONNECTION RELEASE COMPLETE       | RRC                                                                                                       |

### 7.3.2.3.3 For CS+PS multi RAB combination

| Step | Direction |    | Message                              | Comments                 |
|------|-----------|----|--------------------------------------|--------------------------|
|      | UE        | SS |                                      |                          |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)            | Broadcast                |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                  | Paging (CS domain, TMSI) |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)        | RRC                      |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)          | RRC                      |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                      |
| 6    | →         |    | PAGING RESPONSE                      | RR                       |
| 7    | ←         |    | AUTHENTICATION REQUEST               | MM                       |
| 8    | →         |    | AUTHENTICATION RESPONSE              | MM                       |
| 9    | ←         |    | SECURITY MODE COMMAND                | RRC                      |
| 10   | →         |    | SECURITY MODE COMPLETE               | RRC                      |

|    |   |                                 |                                                                                                           |
|----|---|---------------------------------|-----------------------------------------------------------------------------------------------------------|
| 11 | ← | PAGING TYPE 2 (DCCH)            | TMSI (GSM-MAP)/ P-TMSI                                                                                    |
| 12 | → | SERVICE REQUEST                 | GMM                                                                                                       |
| 13 | ← | SECURITY MODE COMMAND           | RRC                                                                                                       |
| 14 | → | SECURITY MODE COMPLETE          | RRC                                                                                                       |
| 15 | ← | ACTIVATE RB TEST MODE           | TC                                                                                                        |
| 16 | → | ACTIVATE RB TEST MODE COMPLETE  | TC                                                                                                        |
| 17 | ← | RADIO BEARER SETUP              | RRC CS radio bearer(s) are configured                                                                     |
| 18 | → | RADIO BEARER SETUP COMPLETE     | RRC                                                                                                       |
| 19 | ← | RADIO BEARER SETUP              | RRC PS radio bearer(s) are configured                                                                     |
| 20 | → | RADIO BEARER SETUP COMPLETE     | RRC                                                                                                       |
| 21 | ← | CLOSE UE TEST LOOP (DCCH)       | TC (UE test loop mode set up)                                                                             |
| 22 | → | CLOSE UE TEST LOOP COMPLETE     | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 23 | ← | OPEN UE TEST LOOP               | TC                                                                                                        |
| 24 | → | OPEN UE TEST LOOP COMPLETE      | TC                                                                                                        |
| 25 | ← | RRC CONNECTION RELEASE          | RRC                                                                                                       |
| 26 | → | RRC CONNECTION RELEASE COMPLETE | RRC                                                                                                       |

### 7.3.2.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

#### 7.3.2.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE, used for the UE supporting PS only.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

#### 7.3.2.4.2 Reference measurement channels

The configurations of the reference measurement channels for RF tests are described in 3GPP TS 34.121 [2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

#### 7.3.2.4.3 Void

#### 7.3.2.4.4 Compressed mode

[T.B.D]

#### 7.3.2.4.5 Transmit diversity mode

[T.B.D]

## 7.3.3 Test procedure for test cases using Cell\_PCH or URA\_PCH state

### 7.3.3.1 Initial conditions

System Simulator:

- Number of cells and parameters for specific tests are defined in 3GPP TS 34.121 [2] and take priority over the default parameters.

User Equipment:

- The UE shall be operated under RF test conditions.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.



- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.3.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    | PS                              |
| - CN domain identity                              |                                 |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       | 00 00                           |
| - GSM-MAP NAS system information                  |                                 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       | 00(T3212 is set to infinity) 01 |
| - GSM-MAP NAS system information                  |                                 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       | Infinity                        |
| - T305                                            |                                 |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information | FDD                                                 |
| - Secondary CCPCH info               |                                                     |
| - CHOICE mode                        | Not Present                                         |
| - Secondary scrambling code          | FALSE                                               |
| - STTD indicator                     | 64                                                  |
| - Spreading factor                   | 2                                                   |
| - Code number                        | FALSE                                               |
| - Pilot symbol existence             | TRUE (default value)                                |
| - TFCI existence                     | Flexible (default value)                            |
| - Fixed or Flexible position         | Not Present                                         |
| - Timing offset                      | Absence of this IE is equivalent to default value 0 |

### 7.3.3.3 Procedure

#### 7.3.3.3.1 For UE supporting PS

| Step | Direction |    | Message                               | Comments                   |
|------|-----------|----|---------------------------------------|----------------------------|
|      | UE        | SS |                                       |                            |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                  |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (PS domain, P-TMSI) |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                        |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                        |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                        |
| 6    | →         |    | SERVICE REQUEST                       | GMM                        |
| 7    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                        |
| 8    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                        |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC                        |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                        |
| 11   | ←         |    | ACTIVATE RB TEST MODE                 | TC                         |
| 12   | →         |    | ACTIVATE RB TEST MODE COMPLETE        | TC                         |

|    |   |                                           |                                                                                                                                                                                                              |
|----|---|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13 | ← | RADIO BEARER SETUP                        | RRC<br>- RAB SETUP using Reference Radio Bearer Configuration                                                                                                                                                |
| 14 | → | RADIO BEARER SETUP COMPLETE               | RRC                                                                                                                                                                                                          |
| 15 | ← | PHYSICAL CHANNEL RECONFIGURATION          | RRC<br>- RRC state indicator is set to "Cell_PCH" or "URA_PCH" depending on the test case                                                                                                                    |
| 16 | → | PHYSICAL CHANNEL RECONFIGURATION COMPLETE | RRC<br>The UE sends this message before it completes state transition.                                                                                                                                       |
| 17 |   | Void                                      | SS sends the L2 ack on the PHYSICAL CHANNEL RECONFIGURATION COMPLETE message.<br>NOTE: The SS should continue to keep the dedicated channel configuration during the time when the L2 ack is sent to the UE. |

### 7.3.3.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

The RADIO BEARER SETUP message is defined in clause 9.2.1, "Contents of RADIO BEARER SETUP message: AM or UM (UE supports PS RAB only)".

The PHYSICAL CHANNEL RECONFIGURATION message is defined in clause 9.1.1, "Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM" using condition A8 for URA\_PCH and condition A10 for Cell\_PCH.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

## 7.3.4 Test procedure for Handover

NOTE: This test procedure is also used for some other test cases involving more than 1 cell.

### 7.3.4.1 Initial conditions

System Simulator:

- Intra-frequency hard handover and soft handover (for FDD) case:
  - 2 cells, default parameters according to Cell 1 and Cell 2 in clause 6.1.4.
- Inter-frequency hard handover case:
  - 2 cells, default parameters according to Cell 1 and Cell 4 in clause 6.1.4.
- Inter-system handover UTRAN to GSM case:
  - 2 cells, default parameters according to Cell 1 and Cell 9 in clause 6.1.4.
- other test cases using this test procedure:
  - Number of cells and parameters for specific tests are defined in 3GPP TS 34.121 [2] for FDD and TS 34.122 [5] for TDD and take priority over the default parameters.

UserEquipment:

- The UE shall be initially operated under the normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.

- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.4.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    |                                 |
| - CN domain identity                              | PS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information |                                                     |
| - Secondary CCPCH info               |                                                     |
| - CHOICE mode                        | FDD                                                 |
| - Secondary scrambling code          | Not Present                                         |
| - STTD indicator                     | FALSE                                               |
| - Spreading factor                   | 64                                                  |
| - Code number                        | 2                                                   |
| - Pilot symbol existence             | FALSE                                               |
| - TFCI existence                     | TRUE (default value)                                |
| - Fixed or Flexible position         | Flexible (default value)                            |
| - Timing offset                      | Not Present                                         |
|                                      | Absence of this IE is equivalent to default value 0 |

For the intra-frequency hard handover and soft handover (for FDD) case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 2 in clause 6.1.4 are used.

For the inter-frequency hard handover case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 4 in clause 6.1.4 are used.

For the inter-system handover from UTRAN to GSM case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 9 in clause 6.1.4 are used.

### 7.3.4.3 Procedure

#### 7.3.4.3.1 For UE supporting CS

| Step | Direction |    | Message                   | Comments  |
|------|-----------|----|---------------------------|-----------|
|      | UE        | SS |                           |           |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH) | Broadcast |

|    |   |                                      |                                                                                                             |
|----|---|--------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 2  | ← | PAGING TYPE1 (PCCH)                  | Paging (CS domain, TMSI)                                                                                    |
| 3  | → | RRC CONNECTION REQUEST (CCCH)        | RRC                                                                                                         |
| 4  | ← | RRC CONNECTION SETUP (CCCH)          | RRC                                                                                                         |
| 5  | → | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                                                                                                         |
| 6  | → | PAGING RESPONSE                      | RR                                                                                                          |
| 7  | ← | AUTHENTICATION REQUEST               | MM                                                                                                          |
| 8  | → | AUTHENTICATION RESPONSE              | MM                                                                                                          |
| 9  | ← | SECURITY MODE COMMAND                | RRC                                                                                                         |
| 10 | → | SECURITY MODE COMPLETE               | RRC                                                                                                         |
| 11 | ← | ACTIVATE RB TEST MODE                | TC                                                                                                          |
| 12 | → | ACTIVATE RB TEST MODE COMPLETE       | TC                                                                                                          |
| 13 | ← | RADIO BEARER SETUP                   | RRC<br>- RAB SETUP using Reference Radio Bearer Configuration<br>- RRC state indicator is set to "CELL_DCH" |
| 14 | → | RADIO BEARER SETUP COMPLETE          | RRC                                                                                                         |
| 15 | ← | RRC CONNECTION RELEASE               | RRC                                                                                                         |
| 16 | → | RRC CONNECTION RELEASE COMPLETE      | RRC                                                                                                         |

#### 7.3.4.3.2 For UE supporting PS only

| Step | Direction |    | Message                               | Comments                                                                                                    |
|------|-----------|----|---------------------------------------|-------------------------------------------------------------------------------------------------------------|
|      | UE        | SS |                                       |                                                                                                             |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                                                                                                   |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (PS domain, P-TMSI)                                                                                  |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                                                                                                         |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                                                                                                         |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                                                                                                         |
| 6    | →         |    | SERVICE REQUEST                       | GMM                                                                                                         |
| 7    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                                                         |
| 8    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                                                         |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC                                                                                                         |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                                                         |
| 11   | ←         |    | ACTIVATE RB TEST MODE                 | TC                                                                                                          |
| 12   | →         |    | ACTIVATE RB TEST MODE COMPLETE        | TC                                                                                                          |
| 13   | ←         |    | RADIO BEARER SETUP                    | RRC<br>- RAB SETUP using Reference Radio Bearer Configuration<br>- RRC state indicator is set to "CELL_DCH" |
| 14   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                                                                         |
| 15   | ←         |    | RRC CONNECTION RELEASE                | RRC                                                                                                         |
| 16   | →         |    | RRC CONNECTION RELEASE COMPLETE       | RRC                                                                                                         |

#### 7.3.4.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

### 7.3.5 Test procedure for test cases using CELL\_FACH state

#### 7.3.5.1 Initial conditions

System Simulator:

- Number of cells and parameters for specific tests are defined in TS 34.121 [2] and take priority over the default parameters.

User Equipment:

- The UE shall be operated under RF test conditions.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.5.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    | PS                              |
| - CN domain identity                              | GSM-MAP                         |
| - CHOICE CN Type                                  |                                 |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information |                                                     |
| - Secondary CCPCH info               | FDD                                                 |
| - CHOICE mode                        | Not Present                                         |
| - Secondary scrambling code          | FALSE                                               |
| - STTD indicator                     | 64                                                  |
| - Spreading factor                   | 2                                                   |
| - Code number                        | FALSE                                               |
| - Pilot symbol existence             | TRUE (default value)                                |
| - TFCI existence                     | Flexible (default value)                            |
| - Fixed or Flexible position         | Not Present                                         |
| - Timing offset                      | Absence of this IE is equivalent to default value 0 |

### 7.3.5.3 Procedure

#### 7.3.5.3.1 For UE supporting CS

| Step | Direction |    | Message                              | Comments                 |
|------|-----------|----|--------------------------------------|--------------------------|
|      | UE        | SS |                                      |                          |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)            | Broadcast                |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                  | Paging (CS domain, TMSI) |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)        | RRC                      |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)          | RRC                      |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                      |
| 6    | →         |    | PAGING RESPONSE                      | RR                       |

|    |   |                                  |     |
|----|---|----------------------------------|-----|
| 7  | ← | AUTHENTICATION REQUEST           | MM  |
| 8  | → | AUTHENTICATION RESPONSE          | MM  |
| 9  | ← | SECURITY MODE COMMAND            | RRC |
| 10 | → | SECURITY MODE COMPLETE           | RRC |
| 11 | ← | ACTIVATE RB TEST MODE            | TC  |
| 12 | → | ACTIVATE RB TEST MODE COMPLETE   | TC  |
| 13 | ← | DEACTIVATE RB TEST MODE          | TC  |
| 14 | → | DEACTIVATE RB TEST MODE COMPLETE | TC  |
| 15 | ← | RRC CONNECTION RELEASE           | RRC |
| 16 | → | RRC CONNECTION RELEASE COMPLETE  | RRC |

### 7.3.5.3.2 For UE supporting PS only

| Step | Direction |    | Message                               | Comments                   |
|------|-----------|----|---------------------------------------|----------------------------|
|      | UE        | SS |                                       |                            |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                  |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (PS domain, P-TMSI) |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                        |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                        |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                        |
| 6    | →         |    | SERVICE REQUEST                       | GMM                        |
| 7    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                        |
| 8    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                        |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC                        |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                        |
| 11   | ←         |    | ACTIVATE RB TEST MODE                 | TC                         |
| 12   | →         |    | ACTIVATE RB TEST MODE COMPLETE        | TC                         |
| 13   | ←         |    | DEACTIVATE RB TEST MODE               | TC                         |
| 14   | →         |    | DEACTIVATE RB TEST MODE COMPLETE      | TC                         |
| 15   | ←         |    | RRC CONNECTION RELEASE                | RRC                        |
| 16   | →         |    | RRC CONNECTION RELEASE COMPLETE       | RRC                        |

### 7.3.5.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

The RRC connection setup is defined in clause 9.1.1, "Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_FACH)".

## 7.3.6 Test procedure for HSDPA RF Performance Requirement

### 7.3.6.1 Initial conditions

System Simulator:

- 1 HS-DSCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.6.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    | PS                              |
| - CN domain identity                              | GSM-MAP                         |
| - CHOICE CN Type                                  |                                 |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information |                                                     |
| - Secondary CCPCH info               | FDD                                                 |
| - CHOICE mode                        | Not Present                                         |
| - Secondary scrambling code          | FALSE                                               |
| - STTD indicator                     | 64                                                  |
| - Spreading factor                   | 2                                                   |
| - Code number                        | FALSE                                               |
| - Pilot symbol existence             | TRUE (default value)                                |
| - TFCI existence                     | Flexible (default value)                            |
| - Fixed or Flexible position         | Not Present                                         |
| - Timing offset                      | Absence of this IE is equivalent to default value 0 |

### 7.3.6.3 Procedure

| Step | Direction |    | Message                               | Comments                                                              |
|------|-----------|----|---------------------------------------|-----------------------------------------------------------------------|
|      | UE        | SS |                                       |                                                                       |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                                                             |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (CS domain, TMSI)                                              |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                                                                   |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                                                                   |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                                                                   |
| 6    | →         |    | PAGING RESPONSE                       | RR                                                                    |
| 7    | ←         |    | AUTHENTICATION REQUEST                | MM                                                                    |
| 8    | →         |    | AUTHENTICATION RESPONSE               | MM                                                                    |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC (CS domain)                                                       |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                   |
| 11   | ←         |    | PAGING TYPE2 (DCCH)                   | Paging (TMSI (GSM-MAP)/ P-TMSI)                                       |
| 12   | →         |    | SERVICE REQUEST                       | GMM                                                                   |
| 13   | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                   |
| 14   | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                   |
| 15   | ←         |    | SECURITY MODE COMMAND                 | RRC (PS domain, IE Integrity protection mode command set to "modify") |

|     |      |                                 |                                                                                                                                                                                                          |
|-----|------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16  | →    | SECURITY MODE COMPLETE          | RRC                                                                                                                                                                                                      |
| 17  | ←    | ACTIVATE RB TEST MODE           | TC                                                                                                                                                                                                       |
| 18  | →    | ACTIVATE RB TEST MODE COMPLETE  | TC                                                                                                                                                                                                       |
| 19  | ←    | RADIO BEARER SETUP              | RRC (RAB SETUP RMC 12.2 CS)                                                                                                                                                                              |
| 20  | →    | RADIO BEARER SETUP COMPLETE     | RRC                                                                                                                                                                                                      |
| 21  | ←    | RADIO BEARER SETUP              | RRC (RAB SETUP HSDPA PS)                                                                                                                                                                                 |
| 22  | →    | RADIO BEARER SETUP COMPLETE     | RRC                                                                                                                                                                                                      |
| A23 | ←    | CLOSE UE TEST LOOP (DCCH)       | TC (UE test loop mode set up to loop the RMC 12.2 to UL RMC 12.2) . Test steps A23, A24, A26 and A27 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A24 | →    | CLOSE UE TEST LOOP COMPLETE     | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated)                                                                                                |
| 25  | <--> |                                 | Perform test                                                                                                                                                                                             |
| A26 | ←    | OPEN UE TEST LOOP               | TC                                                                                                                                                                                                       |
| A27 | →    | OPEN UE TEST LOOP COMPLETE      | TC                                                                                                                                                                                                       |
| 28  | ←    | RRC CONNECTION RELEASE          | RRC                                                                                                                                                                                                      |
| 29  | →    | RRC CONNECTION RELEASE COMPLETE | RRC                                                                                                                                                                                                      |

#### 7.3.6.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

##### 7.3.6.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

##### 7.3.6.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)" is used.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

##### 7.3.6.4.3 RRC CONNECTION SETUP

For step 4 , the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element         | Value/remark                                                                                                                        |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCH and the HS-DPCH) |

### 7.3.7 Test procedure for inter-RAT handover used in RRM testing

#### 7.3.7.1 Initial conditions

System Simulator:



- 2 cells, default parameters according to Cell 1 and Cell 9 in clause 6.1.4.

UserEquipment:

- The UE shall be initially operated under the normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.7.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    | PS                              |
| - CN domain identity                              | GSM-MAP                         |
| - CHOICE CN Type                                  |                                 |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information |                                                     |
| - Secondary CCPCH info               | FDD                                                 |
| - CHOICE mode                        | Not Present                                         |
| - Secondary scrambling code          | FALSE                                               |
| - STTD indicator                     | 64                                                  |
| - Spreading factor                   | 2                                                   |
| - Code number                        | FALSE                                               |
| - Pilot symbol existence             | TRUE (default value)                                |
| - TFCI existence                     | Flexible (default value)                            |
| - Fixed or Flexible position         | Not Present                                         |
| - Timing offset                      | Absence of this IE is equivalent to default value 0 |

For the inter-system handover from UTRAN FDD to GSM case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 9 in clause 6.1.4 are used.

### 7.3.7.3 Procedure

| Step | Direction |    | Message                   | Comments  |
|------|-----------|----|---------------------------|-----------|
|      | UE        | SS |                           |           |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH) | Broadcast |
| 2    | ←         |    | PAGING (PCCH)             | Paging    |

| Step | Direction |    | Message                              | Comments                      |
|------|-----------|----|--------------------------------------|-------------------------------|
|      | UE        | SS |                                      |                               |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)        | RRC                           |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)          | RRC (Transition to cell DCH)  |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                           |
| 6    | →         |    | PAGING RESPONSE                      | RR                            |
| 7    | ←         |    | AUTHENTICATION REQUEST               | MM                            |
| 8    | →         |    | AUTHENTICATION RESPONSE              | MM                            |
| 9    | ←         |    | SECURITY MODE COMMAND                | RRC                           |
| 10   | →         |    | SECURITY MODE COMPLETE               | RRC                           |
| 11   | ←         |    | SET UP                               | CC (see note)                 |
| 12   | →         |    | CALL CONFIRMED                       | CC                            |
| 13   | ←         |    | RADIO BEARER SETUP                   | RRC RAB SETUP                 |
| 14   | →         |    | RADIO BEARER SETUP COMPLETE          | RRC                           |
| 15   | →         |    | ALERTING                             | CC (this message is optional) |
| 16   | →         |    | CONNECT                              | CC                            |
| 17   | ←         |    | CONNECT ACKNOWLEDGE                  | CC                            |

NOTE: The "Signal" information element is not included in the SETUP message.

### 7.3.7.4 Specific message contents

The default message contents specified in clause 9.1 are used with the following exceptions.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

## 7.3.8 Test procedure for inter-RAT cell FACH reselection used in RRM testing

### 7.3.8.1 Initial conditions

System Simulator:

- Number of cells and parameters for specific tests are defined in TS 34.121 [2] and take priority over the default parameters.

User Equipment:

- The UE shall be operated under RF test conditions.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.8.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark |
|---------------------------------------------------|--------------|
| - CN domain system information                    |              |
| - CN domain identity                              | PS           |
| - CHOICE CN Type                                  | GSM-MAP      |
| - CN domain specific NAS system information       |              |
| - GSM-MAP NAS system information                  | 00 00        |
| - CN domain specific DRX cycle length coefficient | 7            |
| - CN domain identity                              | CS           |
| - CHOICE CN Type                                  | GSM-MAP      |

|                                                                                                                                                                                               |                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| - CN domain specific NAS system information<br>- GSM-MAP NAS system information<br>- CN domain specific DRX cycle length coefficient<br>- UE Timers and constants in connected mode<br>- T305 | 00(T3212 is set to infinity) 01<br>7<br>Infinity |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                                                                                                                                                                                                                                                          | Value/remark                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Secondary CCPCH system information<br>- Secondary CCPCH info<br>- CHOICE mode<br>- Secondary scrambling code<br>- STTD indicator<br>- Spreading factor<br>- Code number<br>- Pilot symbol existence<br>- TFCI existence<br>- Fixed or Flexible position<br>- Timing offset | FDD<br>Not Present<br>FALSE<br>64<br>2<br>FALSE<br>TRUE (default value)<br>Flexible (default value)<br>Not Present<br>Absence of this IE is equivalent to default value 0 |

### 7.3.8.3 Procedure

| Step | Direction |    | Message                               | Comments      |
|------|-----------|----|---------------------------------------|---------------|
|      | UE        | SS |                                       |               |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast     |
| 2    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC           |
| 3    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC           |
| 4    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC           |
| 5    | →         |    | SERVICE REQUEST                       | GMM           |
| 6    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM           |
| 7    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM           |
| 8    | ←         |    | SECURITY MODE COMMAND                 | RRC           |
| 9    | →         |    | SECURITY MODE COMPLETE                | RRC           |
| 10   | →         |    | ACTIVATE PDP CONTEXT REQUEST          | SM            |
| 11   | ←         |    | RADIO BEARER SETUP                    | RRC RAB SETUP |
| 12   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC           |
| 13   | ←         |    | ACTIVATE PDP CONTEXT ACCEPT           | SM            |

### 7.3.8.4 Specific message contents

The default message contents specified in clause 9.1 are used with the following exceptions.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

The RRC connection setup is defined in clause 9.1.1, "Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_FACH)".

## 7.3.9 Test procedure for E-DCH RF test cases

### 7.3.9.1 Initial conditions

System Simulator:

- 1 HS-DSCH plus E-DCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.9.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    |                                 |
| - CN domain identity                              | PS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information |                                                     |
| - Secondary CCPCH info               |                                                     |
| - CHOICE mode                        | FDD                                                 |
| - Secondary scrambling code          | Not Present                                         |
| - STTD indicator                     | FALSE                                               |
| - Spreading factor                   | 64                                                  |
| - Code number                        | 2                                                   |
| - Pilot symbol existence             | FALSE                                               |
| - TFCI existence                     | TRUE (default value)                                |
| - Fixed or Flexible position         | Flexible (default value)                            |
| - Timing offset                      | Not Present                                         |
|                                      | Absence of this IE is equivalent to default value 0 |

## 7.3.9.3 Procedure

## 7.3.9.3.1 For UE transmitting on E-DCH with DCH

| Step | Direction |    | Message                               | Comments                                                                                                                                                             |
|------|-----------|----|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | UE        | SS |                                       |                                                                                                                                                                      |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                                                                                                                                                            |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (CS domain, TMSI)                                                                                                                                             |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                                                                                                                                                                  |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                                                                                                                                                                  |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                                                                                                                                                                  |
| 6    | →         |    | PAGING RESPONSE                       | RR                                                                                                                                                                   |
| 7    | ←         |    | AUTHENTICATION REQUEST                | MM                                                                                                                                                                   |
| 8    | →         |    | AUTHENTICATION RESPONSE               | MM                                                                                                                                                                   |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC (CS domain)                                                                                                                                                      |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                                                                                                                  |
| 11   | ←         |    | PAGING TYPE2 (DCCH)                   | Paging (TMSI (GSM-MAP)/ P-TMSI)                                                                                                                                      |
| 12   | →         |    | SERVICE REQUEST                       | GMM                                                                                                                                                                  |
| 13   | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                                                                                                                  |
| 14   | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                                                                                                                  |
| 15   | ←         |    | SECURITY MODE COMMAND                 | RRC (PS domain, IE Integrity protection mode command set to "modify")                                                                                                |
| 16   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                                                                                                                  |
| 17   | ←         |    | ACTIVATE RB TEST MODE                 | TC                                                                                                                                                                   |
| 18   | →         |    | ACTIVATE RB TEST MODE COMPLETE        | TC                                                                                                                                                                   |
| 19   | ←         |    | RADIO BEARER SETUP                    | RRC (RAB SETUP RMC 12.2 CS)                                                                                                                                          |
| 20   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                                                                                                                                  |
| 21   | ←         |    | RADIO BEARER SETUP                    | RRC (RAB SETUP HSDPA and E-DCH PS)                                                                                                                                   |
| 22   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                                                                                                                                  |
| A23  | ←         |    | CLOSE UE TEST LOOP (DCCH)             | TC (UE test loop mode set up) . Test steps A23, A24, A26 and A27 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A24  | →         |    | CLOSE UE TEST LOOP COMPLETE           | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated)                                                            |
| 25   | <-->      |    |                                       | Perform test                                                                                                                                                         |
| A26  | ←         |    | OPEN UE TEST LOOP                     | TC                                                                                                                                                                   |
| A27  | →         |    | OPEN UE TEST LOOP COMPLETE            | TC                                                                                                                                                                   |
| 28   | ←         |    | RRC CONNECTION RELEASE                | RRC                                                                                                                                                                  |
| 29   | →         |    | RRC CONNECTION RELEASE COMPLETE       | RRC                                                                                                                                                                  |

## 7.3.9.3.2 For UE transmitting on E-DCH without DCH

| Step | Direction |    | Message                               | Comments                   |
|------|-----------|----|---------------------------------------|----------------------------|
|      | UE        | SS |                                       |                            |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                  |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (PS domain, P-TMSI) |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                        |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                        |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                        |
| 6    | →         |    | SERVICE REQUEST                       | GMM                        |
| 7    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                        |
| 8    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                        |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC (PS domain)            |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                        |
| 11   | ←         |    | ACTIVATE RB TEST MODE                 | TC                         |
| 12   | →         |    | ACTIVATE RB TEST MODE COMPLETE        | TC                         |

|     |      |                                 |                                                                                                                                                                         |
|-----|------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13  | ←    | RADIO BEARER SETUP              | RRC (RAB SETUP HSDPA and E-DCH PS)                                                                                                                                      |
| 14  | →    | RADIO BEARER SETUP COMPLETE     | RRC                                                                                                                                                                     |
| A15 | ←    | CLOSE UE TEST LOOP (DCCH)       | TC (UE test loop mode set up) .<br>Test steps A15, A16, A18 and A19 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A16 | →    | CLOSE UE TEST LOOP COMPLETE     | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated)                                                               |
| 17  | <--> |                                 | Perform test                                                                                                                                                            |
| A18 | ←    | OPEN UE TEST LOOP               | TC                                                                                                                                                                      |
| A19 | →    | OPEN UE TEST LOOP COMPLETE      | TC                                                                                                                                                                      |
| 20  | ←    | RRC CONNECTION RELEASE          | RRC                                                                                                                                                                     |
| 21  | →    | RRC CONNECTION RELEASE COMPLETE | RRC                                                                                                                                                                     |

### 7.3.9.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

#### 7.3.9.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

#### 7.3.9.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA)" is used.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD. The configurations of the reference channels for E-DCH RF tests are described in 3GPP TS 34.121[2].

#### 7.3.9.4.3 RRC CONNECTION SETUP

For step 4 , the messages in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element         | Value/remark                                                                                                                         |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCH and the HS-DPCCH) |

## 7.3.10 Test procedure for MBMS RF/RRM test cases

### 7.3.10.1 Initial conditions

System Simulator:

- Number of cells and parameters for specific tests are defined in TS 34.121 [2] and take priority over the default parameters.

User Equipment:

- The UE shall be operated under RF test conditions.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.10.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    | PS                              |
| - CN domain identity                              | GSM-MAP                         |
| - CHOICE CN Type                                  |                                 |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

As specified in 34.108 clause 6.1.0b with the following exceptions and using condition M2.

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information |                                                     |
| - Secondary CCPCH info               | FDD                                                 |
| - CHOICE mode                        | Not Present                                         |
| - Secondary scrambling code          | FALSE                                               |
| - STTD indicator                     | FALSE                                               |
| - Spreading factor                   | 64                                                  |
| - Code number                        | 2                                                   |
| - Pilot symbol existence             | FALSE                                               |
| - TFCI existence                     | TRUE (default value)                                |
| - Fixed or Flexible position         | Flexible (default value)                            |
| - Timing offset                      | Not Present                                         |
|                                      | Absence of this IE is equivalent to default value 0 |

### 7.3.10.3 Procedure

| Step | Direction |    | Message                                   | Comments                                       |
|------|-----------|----|-------------------------------------------|------------------------------------------------|
|      | UE        | SS |                                           |                                                |
| 0    |           |    |                                           | UE selects the required MBMS broadcast service |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)                 | Broadcast                                      |
| 2    | ←         |    | MBMS MODIFIED SERVICES INFORMATION (MCCH) | No Service in Modified Service list            |

|     |      |                                                    |                                                                                                                                                                                                |
|-----|------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3   | ←    | MBMS UNMODIFIED SERVICES INFORMATION (MCCH)        | MBMS required UE action " set to acquire PTM RB info".                                                                                                                                         |
| 4   | ←    | MBMS GENERAL INFORMATION (MCCH)                    |                                                                                                                                                                                                |
| 5   | ←    | MBMS COMMON P-T-M RB INFORMATION (MCCH)            | Contains configuration of the MTCH radio bearer.                                                                                                                                               |
| 6   | ←    | MBMS CURRENT CELL P-T-M RB INFORMATION (MCCH)      | Indicates the radio bearer configuration to be used for reception of the service.                                                                                                              |
| 7   | ←    | MBMS NEIGHBOURING CELL P-T-M RB INFORMATION (MCCH) | Optional depending on whether neighbour cells are required.                                                                                                                                    |
| 8   | ←    | PAGING TYPE1 (PCCH)                                | Paging (PS domain, P-TMSI)                                                                                                                                                                     |
| 9   | →    | RRC CONNECTION REQUEST (CCCH)                      | RRC                                                                                                                                                                                            |
| 10  | ←    | RRC CONNECTION SETUP (CCCH)                        | RRC                                                                                                                                                                                            |
| 11  | →    | RRC CONNECTION SETUP COMPLETE (DCCH)               | RRC                                                                                                                                                                                            |
| 12  | →    | SERVICE REQUEST                                    | GMM                                                                                                                                                                                            |
| 13  | ←    | AUTHENTICATION AND CIPHERING REQUEST               | GMM                                                                                                                                                                                            |
| 14  | →    | AUTHENTICATION AND CIPHERING RESPONSE              | GMM                                                                                                                                                                                            |
| 15  | ←    | SECURITY MODE COMMAND                              | RRC                                                                                                                                                                                            |
| 16  | →    | SECURITY MODE COMPLETE                             | RRC                                                                                                                                                                                            |
| 17  | ←    | ACTIVATE RB TEST MODE                              | TC                                                                                                                                                                                             |
| 18  | →    | ACTIVATE RB TEST MODE COMPLETE                     | TC                                                                                                                                                                                             |
| 19  |      | void                                               |                                                                                                                                                                                                |
| 20  | ←    | CLOSE UE TEST LOOP                                 | TC (UE test loop mode 3 set up) The RLC SDU counting shall be performed by the UE                                                                                                              |
| 21  | →    | CLOSE UE TEST LOOP COMPLETE                        | TC (test loop mode 3 on MTCH is activated)                                                                                                                                                     |
| A22 | ←    | PHYSICAL CHANNEL RECONFIGURATION                   | RRC<br>- RRC state indicator set to "Cell_PCH"<br>Test steps A22 and A23 are only executed when the test method in TS 34.121 [2] specifies that transition to CELL_PCH state is required.      |
| A23 | →    | PHYSICAL CHANNEL RECONFIGURATION COMPLETE          | RRC<br>The UE sends this message before it completes state transition.                                                                                                                         |
|     | <--> |                                                    | Perform test.                                                                                                                                                                                  |
| A24 | ←    | PAGING TYPE 1                                      | RRC<br>- RRC state indicator set to "Cell_FACH"<br>Test steps A24, A25 and A26 are only executed when the test method in TS 34.121 [2] specifies that the test is performed in CELL_PCH state. |
| A25 | →    | CELL UPDATE                                        | RRC                                                                                                                                                                                            |
| A26 | ←    | CELL UPDATE CONFIRM                                | RRC                                                                                                                                                                                            |
| 27  | ←    | OPEN UE TEST LOOP                                  | TC                                                                                                                                                                                             |
| 28  | →    | OPEN UE TEST LOOP COMPLETE                         | TC                                                                                                                                                                                             |
| 29  | ←    | RRC CONNECTION RELEASE                             | RRC                                                                                                                                                                                            |
| 30  | →    | RRC CONNECTION RELEASE COMPLETE                    | RRC                                                                                                                                                                                            |

### 7.3.10.4 Specific message contents

The default message contents specified in clause 9.1.1 are used with the following exceptions.

Contents of MBMS GENERAL INFORMATION message: UM (Step 4)

| Information Element            | Value/remark | Version |
|--------------------------------|--------------|---------|
| MICH configuration information |              | Rel-6   |
| - MICH Power offset            | 0dB          | Rel-6   |
| - CHOICE Mode                  | FDD          | Rel-6   |
| - Channelisation code          | 7            | Rel-6   |
| - Number of NI per frame       | 18           | Rel-6   |
| - STTD indicator               | FALSE        | Rel-6   |



Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (Step 5)

For step 5, the message in clause 9.2.1 "Contents of MBMS COMMON P-T-M RB INFORMATION message: UM" is used

Contents of MBMS CURRENT P-T-M RB INFORMATION message: UM (Step 6)

For step 6, the message in clause 9.1.1 "Contents of MBMS CURRENT P-T-M RB INFORMATION message: UM" is used with condition A2.

PHYSICAL CHANNEL RECONFIGURATION (Step A22)

For step A22, the message in clause 9.1.1 "Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM" is used with condition A9 for Cell\_PCH.

PAGING TYPE 1 (Step A24)

| Information Element           | Value/remark            |
|-------------------------------|-------------------------|
| Message Type                  |                         |
| Paging record list            |                         |
| -Paging record                |                         |
| - CHOICE Used paging identity | Utran-Identity          |
| -U-RNTI                       |                         |
| -SRNC-Identity                | '000000000001'B         |
| -S-RNTI                       | '00000000000000000001'B |
| BCCH modification info        | Not Present             |

Contents of ATTACH ACCEPT message: GMM

This message is sent from the SS to the UE.

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

## 7.3.11 Test procedure for HSDPA with F-DPCH RF Performance Requirement

### 7.3.11.1 Initial conditions

System Simulator:

- 1 HS-DSCH with F-DPCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.11.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

## Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    |                                 |
| - CN domain identity                              | PS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

## Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

## Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information |                                                     |
| - Secondary CCPCH info               | FDD                                                 |
| - CHOICE mode                        | Not Present                                         |
| - Secondary scrambling code          | FALSE                                               |
| - STTD indicator                     | 64                                                  |
| - Spreading factor                   | 2                                                   |
| - Code number                        | FALSE                                               |
| - Pilot symbol existence             | TRUE (default value)                                |
| - TFCI existence                     | Flexible (default value)                            |
| - Fixed or Flexible position         | Not Present                                         |
| - Timing offset                      | Absence of this IE is equivalent to default value 0 |

## 7.3.11.3 Procedure

| Step | Direction |      | Message                               | Comments                          |
|------|-----------|------|---------------------------------------|-----------------------------------|
|      | UE        | SS   |                                       |                                   |
| 1    |           | ←    | SYSTEM INFORMATION (BCCH)             | Broadcast                         |
| 2    |           | ←    | PAGING TYPE1 (PCCH)                   | Paging (PS domain, P-TMSI)        |
| 3    |           | →    | RRC CONNECTION REQUEST (CCCH)         | RRC                               |
| 4    |           | ←    | RRC CONNECTION SETUP (CCCH)           | RRC                               |
| 5    |           | →    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                               |
| 6    |           | →    | SERVICE REQUEST                       | GMM                               |
| 7    |           | ←    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                               |
| 8    |           | →    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                               |
| 9    |           | ←    | SECURITY MODE COMMAND                 | RRC (PS domain)                   |
| 10   |           | →    | SECURITY MODE COMPLETE                | RRC                               |
| 11   |           | ←    | ACTIVATE RB TEST MODE                 | TC                                |
| 12   |           | →    | ACTIVATE RB TEST MODE COMPLETE        | TC                                |
| 13   |           | ←    | RADIO BEARER SETUP                    | RRC (RAB SETUP HSDPA with F-DPCH) |
| 14   |           | →    | RADIO BEARER SETUP COMPLETE           | RRC                               |
| 15   |           | <--> |                                       | Perform test                      |
| 16   |           | ←    | RRC CONNECTION RELEASE                | RRC                               |
| 17   |           | →    | RRC CONNECTION RELEASE COMPLETE       | RRC                               |

## 7.3.11.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

#### 7.3.11.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

#### 7.3.11.4.2 RADIO BEARER SETUP

For step 13, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (HSDPA with F-DPCH)" is used.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

#### 7.3.11.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element         | Value/remark                                                                                                                          |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCCH and the HS-DPCCH) |

### 7.3.12 Test procedure for HSDPA in CELL\_FACH RF Performance Requirement

#### 7.3.12.1 Initial conditions

System Simulator:

- Number of cells and parameters for specific tests are defined in TS 34.121 [2] and take priority over the default parameters.

User Equipment:

- The UE shall be operated under RF test conditions.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.12.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    |                                 |
| - CN domain identity                              | PS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information |                                                     |
| - Secondary CCPCH info               |                                                     |
| - CHOICE mode                        | FDD                                                 |
| - Secondary scrambling code          | Not Present                                         |
| - STTD indicator                     | FALSE                                               |
| - Spreading factor                   | 64                                                  |
| - Code number                        | 2                                                   |
| - Pilot symbol existence             | FALSE                                               |
| - TFCI existence                     | TRUE (default value)                                |
| - Fixed or Flexible position         | Flexible (default value)                            |
| - Timing offset                      | Not Present                                         |
|                                      | Absence of this IE is equivalent to default value 0 |

Additional crucial parameters for the test requirements are repeated in table 7.3.12-1 and these overrule the parameters defined in SIB type 5.

**Table 7.3.12.1: UE parameters for Random Access test**

| Parameter                                                                                                        | Unit       | Value    |
|------------------------------------------------------------------------------------------------------------------|------------|----------|
| Maximum number of preamble ramping cycles ( $M_{\max}$ ).                                                        |            | 2        |
| Maximum number of preambles in one preamble ramping cycle (Preamble Retrans Max)                                 |            | 2        |
| The backoff time $T_{B01}$<br>$N_{B01min}=N_{B01max}$                                                            | ms<br>#TTI | N/A<br>0 |
| Power step when no acquisition indicator is received (Power offset $P_0$ )                                       | dB         | 3        |
| Power offset between the last transmitted preamble and the control part of the message (Power offset $P_{p-m}$ ) | dB         | 0        |
| Maximum allowed UL TX power                                                                                      | dBm        | 21       |

### 7.3.12.3 Procedure

| Step | Direction |    | Message                               | Comments                                                                             |
|------|-----------|----|---------------------------------------|--------------------------------------------------------------------------------------|
|      | UE        | SS |                                       |                                                                                      |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                                                                            |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (PS domain, P-TMSI)                                                           |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                                                                                  |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                                                                                  |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                                                                                  |
| 6    | →         |    | SERVICE REQUEST                       | GMM                                                                                  |
| 7    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                                  |
| 8    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                                  |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC                                                                                  |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                                  |
| 11   | ←         |    | ACTIVATE RB TEST MODE                 | TC                                                                                   |
| 12   | →         |    | ACTIVATE RB TEST MODE COMPLETE        | TC                                                                                   |
| 13   | ←         |    | RADIO BEARER SETUP                    | RRC (RAB SETUP HSDPA PS in CELL_FACH)                                                |
| 14   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                                                  |
| 15   | ←         |    | CLOSE UE TEST LOOP                    | TC (UE test loop mode 1 set up)<br>The RLC SDU counting shall be performed by the SS |
| 16   | →         |    | CLOSE UE TEST LOOP COMPLETE           | TC (test loop mode 1 on DTCH is activated)<br>Perform test.                          |
| 17   | <-->      |    |                                       |                                                                                      |
| 18   | ←         |    | OPEN UE TEST LOOP                     | TC                                                                                   |
| 19   | →         |    | OPEN UE TEST LOOP COMPLETE            | TC                                                                                   |
| 20   |           |    | DEACTIVATE RB TEST MODE               | TC                                                                                   |
| 21   |           |    | DEACTIVATE RB TEST MODE COMPLETE      | TC                                                                                   |
| 22   | ←         |    | RRC CONNECTION RELEASE                | RRC                                                                                  |

### 7.3.12.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

The RRC connection setup is defined in clause 9.1.1, "Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_FACH)".

For step 13, the message in clause 9.1.1, "Contents of RADIO BEARER SETUP message: AM or UM" is used with condition A24. Default parameters are set for "Interactive/Background / UL:32 DL: [max bit rate depending on UE category] with fixed RLC and MAC-ehs / PS RAB + SRBs for CCCH + DCCH on RACH and SRB with fixed RLC and MAC-ehs on HS-DSCH / DL:QPSK" in clause 6.10.2.4.7.1 using the 10 ms UL TTI alternative with the following exception:

| Information Element                     | Condition | Value/remark                        | Version |
|-----------------------------------------|-----------|-------------------------------------|---------|
| - Number of uplink RLC logical channels |           | 1                                   |         |
| - Uplink transport channel type         |           | RACH                                |         |
| - UL Transport channel identity         |           | Not Present                         |         |
| - Logical channel identity              |           | 7                                   |         |
| - CHOICE RLC size list                  |           | Explicit list                       |         |
| - RLC size index                        |           | Reference to clause 6 Parameter Set |         |
| - MAC logical channel priority          |           | 1 (Note 1)                          | -       |

Note 1: The exception is required to get ASC #0 according to 25.321 section 11.2.1. ASC#0 guarantee persistence value 1 to not cause delay in the RACH procedure.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

### 7.3.13 Test procedure for DC-HSDPA and DB-DC-HSDPA RF tests

#### 7.3.13.1 Initial conditions

System Simulator:

- Dual HS-DSCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

#### 7.3.13.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    | PS                              |
| - CN domain identity                              | GSM-MAP                         |
| - CHOICE CN Type                                  |                                 |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

## Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information |                                                     |
| - Secondary CCPCH info               |                                                     |
| - CHOICE mode                        | FDD                                                 |
| - Secondary scrambling code          | Not Present                                         |
| - STTD indicator                     | FALSE                                               |
| - Spreading factor                   | 64                                                  |
| - Code number                        | 2                                                   |
| - Pilot symbol existence             | FALSE                                               |
| - TFCI existence                     | TRUE (default value)                                |
| - Fixed or Flexible position         | Flexible (default value)                            |
| - Timing offset                      | Not Present                                         |
|                                      | Absence of this IE is equivalent to default value 0 |

## 7.3.13.3 Procedure

| Step | Direction |    | Message                               | Comments                                                              |
|------|-----------|----|---------------------------------------|-----------------------------------------------------------------------|
|      | UE        | SS |                                       |                                                                       |
| 1    |           | ←  | SYSTEM INFORMATION (BCCH)             | Broadcast                                                             |
| 2    |           | ←  | PAGING TYPE1 (PCCH)                   | Paging (CS domain, TMSI)                                              |
| 3    |           | →  | RRC CONNECTION REQUEST (CCCH)         | RRC                                                                   |
| 4    |           | ←  | RRC CONNECTION SETUP (CCCH)           | RRC                                                                   |
| 5    |           | →  | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                                                                   |
| 6    |           | →  | PAGING RESPONSE                       | RR                                                                    |
| 7    |           | ←  | AUTHENTICATION REQUEST                | MM                                                                    |
| 8    |           | →  | AUTHENTICATION RESPONSE               | MM                                                                    |
| 9    |           | ←  | SECURITY MODE COMMAND                 | RRC (CS domain)                                                       |
| 10   |           | →  | SECURITY MODE COMPLETE                | RRC                                                                   |
| 11   |           | ←  | PAGING TYPE2 (DCCH)                   | Paging (TMSI (GSM-MAP)/ P-TMSI)                                       |
| 12   |           | →  | SERVICE REQUEST                       | GMM                                                                   |
| 13   |           | ←  | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                   |
| 14   |           | →  | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                   |
| 15   |           | ←  | SECURITY MODE COMMAND                 | RRC (PS domain, IE Integrity protection mode command set to "modify") |
| 16   |           | →  | SECURITY MODE COMPLETE                | RRC                                                                   |
| 17   |           | ←  | ACTIVATE RB TEST MODE                 | TC                                                                    |
| 18   |           | →  | ACTIVATE RB TEST MODE COMPLETE        | TC                                                                    |
| 19   |           | ←  | RADIO BEARER SETUP                    | RRC (RAB SETUP RMC 12.2 CS)                                           |
| 20   |           | →  | RADIO BEARER SETUP COMPLETE           | RRC                                                                   |
| 21   |           | ←  | RADIO BEARER SETUP                    | RRC (RAB SETUP DC-HSDPA PS)                                           |
| 22   |           | →  | RADIO BEARER SETUP COMPLETE           | RRC                                                                   |
| 23   | <-->      |    |                                       | Perform test                                                          |
| 24   |           | ←  | RRC CONNECTION RELEASE                | RRC                                                                   |
| 25   |           | →  | RRC CONNECTION RELEASE COMPLETE       | RRC                                                                   |

## 7.3.13.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

## 7.3.13.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

### 7.3.13.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "RADIO BEARER SETUP message: AM or UM (DC-HSDPA)" is used.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

### 7.3.13.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element         | Value/remark                                                                                                                        |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCH and the HS-DPCH) |

## 7.3.14 Test procedure for DC-HSUPA RF tests

### 7.3.14.1 Initial conditions

System Simulator:

- Dual E-DCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.14.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    | PS                              |
| - CN domain identity                              |                                 |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       | 00 00                           |
| - GSM-MAP NAS system information                  |                                 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       | 00(T3212 is set to infinity) 01 |
| - GSM-MAP NAS system information                  |                                 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       | Infinity                        |
| - T305                                            |                                 |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |



## Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information | FDD                                                 |
| - Secondary CCPCH info               | Not Present                                         |
| - CHOICE mode                        | FALSE                                               |
| - Secondary scrambling code          | 64                                                  |
| - STTD indicator                     | 2                                                   |
| - Spreading factor                   | FALSE                                               |
| - Code number                        | TRUE (default value)                                |
| - Pilot symbol existence             | Flexible (default value)                            |
| - TFCI existence                     | Not Present                                         |
| - Fixed or Flexible position         | Absence of this IE is equivalent to default value 0 |
| - Timing offset                      |                                                     |

## 7.3.14.3 Procedure

| Step | Direction |    | Message                               | Comments                                                              |
|------|-----------|----|---------------------------------------|-----------------------------------------------------------------------|
|      | UE        | SS |                                       |                                                                       |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                                                             |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (CS domain, TMSI)                                              |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                                                                   |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                                                                   |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                                                                   |
| 6    | →         |    | PAGING RESPONSE                       | RR                                                                    |
| 7    | ←         |    | AUTHENTICATION REQUEST                | MM                                                                    |
| 8    | →         |    | AUTHENTICATION RESPONSE               | MM                                                                    |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC (CS domain)                                                       |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                   |
| 11   | ←         |    | PAGING TYPE2 (DCCH)                   | Paging (TMSI (GSM-MAP)/ P-TMSI)                                       |
| 12   | →         |    | SERVICE REQUEST                       | GMM                                                                   |
| 13   | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                   |
| 14   | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                   |
| 15   | ←         |    | SECURITY MODE COMMAND                 | RRC (PS domain, IE Integrity protection mode command set to "modify") |
| 16   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                   |
| 17   | ←         |    | ACTIVATE RB TEST MODE                 | TC                                                                    |
| 18   | →         |    | ACTIVATE RB TEST MODE COMPLETE        | TC                                                                    |
| 21   | ←         |    | RADIO BEARER SETUP                    | RRC (RAB SETUP DC-HSUPA PS)                                           |
| 22   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                                   |
| 23   | <-->      |    |                                       | Perform test                                                          |
| 24   | ←         |    | RRC CONNECTION RELEASE                | RRC                                                                   |
| 25   | →         |    | RRC CONNECTION RELEASE COMPLETE       | RRC                                                                   |

## 7.3.14.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

## 7.3.14.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

#### 7.3.14.4.2 RADIO BEARER SETUP

The Radio Bearer Setup message is defined in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (DC-HSUPA)".

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

#### 7.3.14.4.3 RRC CONNECTION SETUP

The RRC connection setup is defined in clause 9.1.1, "Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_FACH)".

### 7.3.15 Test procedure for Multiple-cell Performance Requirement for 1,28 Mcps TDD

#### 7.3.15.1 Initial conditions

System Simulator

- Number of cells and parameters for specific tests are defined in TS 34.122 [5] and take priority over the default parameters.

User Equipment:

- The UE shall be operated under RF test conditions.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

#### 7.3.15.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    | PS                              |
| - CN domain identity                              | GSM-MAP                         |
| - CHOICE CN Type                                  |                                 |
| - CN domain specific NAS system information       | 00 00                           |
| - GSM-MAP NAS system information                  | 7                               |
| - CN domain specific DRX cycle length coefficient | CS                              |
| - CN domain identity                              | GSM-MAP                         |
| - CHOICE CN Type                                  |                                 |
| - CN domain specific NAS system information       | 00(T3212 is set to infinity) 01 |
| - GSM-MAP NAS system information                  | 7                               |
| - CN domain specific DRX cycle length coefficient |                                 |
| - UE Timers and constants in connected mode       | Infinity                        |
| - T305                                            |                                 |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 11 (1.28 Mcps TDD)

This is the default message content of SIB 11 for cell 1.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Intra-frequency measurement identity</li> <li>- Intra-frequency cell info list</li> <li>- CHOICE intra-frequency cell removal</li> <li>- New intra-frequency cells</li> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN Indicator</li> <li>- CHOICE mode</li> <li>- Primary CCPCH info</li> <li>- Cell parameters ID</li> <li>- Primary CCPCH TX power</li> <li>- Timeslot list</li> <li>- CHOICE TDD option <ul style="list-style-type: none"> <li>- 1.28 Mcps TDD</li> <li>- Timeslot number</li> </ul> </li> <li>- Cell Selection and Re-selection info</li> </ul> |  | <p>Not Present<br/>Absence of this IE is equivalent to default value 1</p> <p>Not present<br/>(This IE shall be ignored by the UE for SIB11)</p> <p>1</p> <p>Not present<br/>Absence of this IE is equivalent to default value 0dB</p> <p>Not Present<br/>FALSE<br/>TDD</p> <p>19</p> <p>Not Present<br/>Not Present</p> <p>Not Present<br/>Not Present<br/>(The IE shall be absent as this is the serving cell)</p> |
| <ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN Indicator</li> <li>- CHOICE mode</li> <li>- Primary CCPCH info</li> <li>- Cell parameters ID</li> <li>- Primary CCPCH TX power</li> <li>- Timeslot list</li> <li>- CHOICE TDD option <ul style="list-style-type: none"> <li>- 1.28 Mcps TDD</li> <li>- Timeslot number</li> </ul> </li> <li>- Cell Selection and Re-selection info</li> </ul>                                                                                                                                                                               |  | <p>2</p> <p>Not present<br/>Absence of this IE is equivalent to default value 0dB</p> <p>Not Present<br/>FALSE<br/>TDD</p> <p>58</p> <p>Not Present<br/>Not Present</p> <p>Not Present<br/>Not Present</p>                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> <li>- Cell individual offset</li> <li>- Reference time difference to cell</li> <li>- Read SFN Indicator</li> <li>- CHOICE mode</li> <li>- Primary CCPCH info</li> <li>- Cell parameters ID</li> <li>- Primary CCPCH TX power</li> <li>- Timeslot list</li> <li>- CHOICE TDD option <ul style="list-style-type: none"> <li>- 1.28 Mcps TDD</li> <li>- Timeslot number</li> </ul> </li> <li>- Cell Selection and Re-selection info</li> </ul>                                                                                                                                                                               |  | <p>3</p> <p>Not present<br/>Absence of this IE is equivalent to default value 0dB</p> <p>Not Present<br/>FALSE<br/>TDD</p> <p>85</p> <p>Not Present<br/>Not Present</p> <p>Not Present<br/>Not Present</p>                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | <p>7</p> <p>Same content as specified for intra-frequency cell id=2 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.7(TDD)" in clause 6.1.4</p>                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>- Intra-frequency cell id</li> <li>- Cell info</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | <p>8</p> <p>Same content as specified for intra-frequency cell id=2 with the exception that value for Cell Parameters ID shall be according to clause titled "Default settings for cell No.8(TDD)" in clause 6.1.4</p>                                                                                                                                                                                               |

### 7.3.15.3 Procedure

#### 7.3.15.3.1 For UE supporting CS

| Step | Direction |    | Message                              | Comments                                                                                                  |
|------|-----------|----|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
|      | UE        | SS |                                      |                                                                                                           |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)            | Broadcast                                                                                                 |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                  | Paging (CS domain, TMSI)                                                                                  |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)        | RRC                                                                                                       |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)          | RRC                                                                                                       |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                                                                                                       |
| 6    | →         |    | PAGING RESPONSE                      | RR                                                                                                        |
| 7    | ←         |    | AUTHENTICATION REQUEST               | MM                                                                                                        |
| 8    | →         |    | AUTHENTICATION RESPONSE              | MM                                                                                                        |
| 9    | ←         |    | SECURITY MODE COMMAND                | RRC                                                                                                       |
| 10   | →         |    | SECURITY MODE COMPLETE               | RRC                                                                                                       |
| 11   | ←         |    | ACTIVATE RB TEST MODE                | TC                                                                                                        |
| 12   | →         |    | ACTIVATE RB TEST MODE COMPLETE       | TC                                                                                                        |
| 13   | ←         |    | RADIO BEARER SETUP                   | RRC (RAB SETUP)                                                                                           |
| 14   | →         |    | RADIO BEARER SETUP COMPLETE          | RRC                                                                                                       |
| 15   | ←         |    | CLOSE UE TEST LOOP (DCCH)            | TC (UE test loop mode set up)                                                                             |
| 16   | →         |    | CLOSE UE TEST LOOP COMPLETE          | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 17   | ←         |    | OPEN UE TEST LOOP                    | TC                                                                                                        |
| 18   | →         |    | OPEN UE TEST LOOP COMPLETE           | TC                                                                                                        |
| 19   | ←         |    | RRC CONNECTION RELEASE               | RRC                                                                                                       |
| 20   | →         |    | RRC CONNECTION RELEASE COMPLETE      | RRC                                                                                                       |

#### 7.3.15.3.2 For UE supporting PS only

| Step | Direction |    | Message                               | Comments                                                                                                  |
|------|-----------|----|---------------------------------------|-----------------------------------------------------------------------------------------------------------|
|      | UE        | SS |                                       |                                                                                                           |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                                                                                                 |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (PS domain, P-TMSI)                                                                                |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                                                                                                       |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                                                                                                       |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                                                                                                       |
| 6    | →         |    | SERVICE REQUEST                       | GMM                                                                                                       |
| 7    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                                                       |
| 8    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                                                       |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC                                                                                                       |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                                                       |
| 11   | ←         |    | ACTIVATE RB TEST MODE                 | TC                                                                                                        |
| 12   | →         |    | ACTIVATE RB TEST MODE COMPLETE        | TC                                                                                                        |
| 13   | ←         |    | RADIO BEARER SETUP                    | RRC (RAB SETUP)                                                                                           |
| 14   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                                                                       |
| 15   | ←         |    | CLOSE UE TEST LOOP (DCCH)             | TC (UE test loop mode set up)                                                                             |
| 16   | →         |    | CLOSE UE TEST LOOP COMPLETE           | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated) |
| 17   | ←         |    | OPEN UE TEST LOOP                     | TC                                                                                                        |
| 18   | →         |    | OPEN UE TEST LOOP COMPLETE            | TC                                                                                                        |
| 19   | ←         |    | RRC CONNECTION RELEASE                | RRC                                                                                                       |
| 20   | →         |    | RRC CONNECTION RELEASE COMPLETE       | RRC                                                                                                       |

### 7.3.15.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

#### 7.3.15.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE, used for the UE supporting PS only.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

#### 7.3.15.4.2 Reference measurement channels

The configurations of the reference measurement channels for RF tests are described in 3GPP TS 34.122 [5], annex C for TDD.

### 7.3.16 Test procedure for 4C-HSDPA RF tests

#### 7.3.16.1 Initial conditions

System Simulator:

- Dual HS-DSCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

#### 7.3.16.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    | PS<br>GSM-MAP                   |
| - CN domain identity                              |                                 |
| - CHOICE CN Type                                  | 00 00                           |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 7                               |
| - CN domain specific DRX cycle length coefficient | CS                              |
| - CN domain identity                              |                                 |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       | Infinity                        |
| - T305                                            |                                 |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                      |
|--------------------------------------|-----------------------------------|
| - Secondary CCPCH system information | FDD<br>Not Present<br>FALSE<br>64 |
| - Secondary CCPCH info               |                                   |
| - CHOICE mode                        |                                   |
| - Secondary scrambling code          |                                   |
| - STTD indicator                     |                                   |
| - Spreading factor                   | 64                                |

|                                                     |                          |
|-----------------------------------------------------|--------------------------|
| - Code number                                       | 2                        |
| - Pilot symbol existence                            | FALSE                    |
| - TFCI existence                                    | TRUE (default value)     |
| - Fixed or Flexible position                        | Flexible (default value) |
| - Timing offset                                     | Not Present              |
| Absence of this IE is equivalent to default value 0 |                          |

### 7.3.16.3 Procedure

| Step | Direction |    | Message                               | Comments                                                              |
|------|-----------|----|---------------------------------------|-----------------------------------------------------------------------|
|      | UE        | SS |                                       |                                                                       |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                                                             |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (CS domain, TMSI)                                              |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                                                                   |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                                                                   |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                                                                   |
| 6    | →         |    | PAGING RESPONSE                       | RR                                                                    |
| 7    | ←         |    | AUTHENTICATION REQUEST                | MM                                                                    |
| 8    | →         |    | AUTHENTICATION RESPONSE               | MM                                                                    |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC (CS domain)                                                       |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                   |
| 11   | ←         |    | PAGING TYPE2 (DCCH)                   | Paging (TMSI (GSM-MAP)/ P-TMSI)                                       |
| 12   | →         |    | SERVICE REQUEST                       | GMM                                                                   |
| 13   | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                   |
| 14   | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                   |
| 15   | ←         |    | SECURITY MODE COMMAND                 | RRC (PS domain, IE Integrity protection mode command set to "modify") |
| 16   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                   |
| 17   | ←         |    | ACTIVATE RB TEST MODE                 | TC                                                                    |
| 18   | →         |    | ACTIVATE RB TEST MODE COMPLETE        | TC                                                                    |
| 19   | ←         |    | RADIO BEARER SETUP                    | RRC (RAB SETUP RMC 12.2 CS)                                           |
| 20   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                                   |
| 21   | ←         |    | RADIO BEARER SETUP                    | RRC (RAB SETUP DC-HSDPA PS)                                           |
| 22   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                                   |
| 23   | <-->      |    |                                       | Perform test                                                          |
| 24   | ←         |    | RRC CONNECTION RELEASE                | RRC                                                                   |
| 25   | →         |    | RRC CONNECTION RELEASE COMPLETE       | RRC                                                                   |

### 7.3.16.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

#### 7.3.16.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

#### 7.3.16.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "RADIO BEARER SETUP message: AM or UM (DC-HSDPA)" is used with secondary serving cell defined as per table 5.0aB or 5.0aC of 3GPP TS 25.101.

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

### 7.3.16.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element         | Value/remark                                                                                                                          |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCCH and the HS-DPCCH) |

## 7.3.17 Test procedure for TX, RX and Performance Requirement for UL CLTD

### 7.3.17.1 Initial conditions

System Simulator:

- 1 HS-DSCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.17.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    | PS                              |
| - CN domain identity                              |                                 |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       | 00 00                           |
| - GSM-MAP NAS system information                  |                                 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       | 00(T3212 is set to infinity) 01 |
| - GSM-MAP NAS system information                  |                                 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       | Infinity                        |
| - T305                                            |                                 |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark |
|--------------------------------------|--------------|
| - Secondary CCPCH system information |              |
| - Secondary CCPCH info               |              |

|                              |                                                     |
|------------------------------|-----------------------------------------------------|
| - CHOICE mode                | FDD                                                 |
| - Secondary scrambling code  | Not Present                                         |
| - STTD indicator             | FALSE                                               |
| - Spreading factor           | 64                                                  |
| - Code number                | 2                                                   |
| - Pilot symbol existence     | FALSE                                               |
| - TFCI existence             | TRUE (default value)                                |
| - Fixed or Flexible position | Flexible (default value)                            |
| - Timing offset              | Not Present                                         |
|                              | Absence of this IE is equivalent to default value 0 |

### 7.3.17.3 Procedure

| Step | Direction |    | Message                               | Comments                                                                                                                                                                                                |
|------|-----------|----|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | UE        | SS |                                       |                                                                                                                                                                                                         |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                                                                                                                                                                                               |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (CS domain, TMSI)                                                                                                                                                                                |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                                                                                                                                                                                                     |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                                                                                                                                                                                                     |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                                                                                                                                                                                                     |
| 6    | →         |    | PAGING RESPONSE                       | RR                                                                                                                                                                                                      |
| 7    | ←         |    | AUTHENTICATION REQUEST                | MM                                                                                                                                                                                                      |
| 8    | →         |    | AUTHENTICATION RESPONSE               | MM                                                                                                                                                                                                      |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC (CS domain)                                                                                                                                                                                         |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                                                                                                                                                     |
| 11   | ←         |    | PAGING TYPE2 (DCCH)                   | Paging (TMSI (GSM-MAP)/ P-TMSI)                                                                                                                                                                         |
| 12   | →         |    | SERVICE REQUEST                       | GMM                                                                                                                                                                                                     |
| 13   | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                                                                                                                                                     |
| 14   | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                                                                                                                                                     |
| 15   | ←         |    | SECURITY MODE COMMAND                 | RRC (PS domain, IE Integrity protection mode command set to "modify")                                                                                                                                   |
| 16   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                                                                                                                                                     |
| 17   | ←         |    | ACTIVATE RB TEST MODE                 | TC                                                                                                                                                                                                      |
| 18   | →         |    | ACTIVATE RB TEST MODE COMPLETE        | TC                                                                                                                                                                                                      |
| 19   | ←         |    | RADIO BEARER SETUP                    | RRC (RAB SETUP RMC 12.2 CS)                                                                                                                                                                             |
| 20   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                                                                                                                                                                     |
| 21   | ←         |    | RADIO BEARER SETUP                    | RRC (RAB SETUP HSDPA PS)                                                                                                                                                                                |
| 22   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                                                                                                                                                                     |
| A23  | ←         |    | CLOSE UE TEST LOOP (DCCH)             | TC (UE test loop mode set up to loop the RMC 12.2 to UL RMC 12.2). Test steps A23, A24, A26 and A27 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A24  | →         |    | CLOSE UE TEST LOOP COMPLETE           | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated)                                                                                               |
| 25   | <-->      |    |                                       | Perform test                                                                                                                                                                                            |
| A26  | ←         |    | OPEN UE TEST LOOP                     | TC                                                                                                                                                                                                      |
| A27  | →         |    | OPEN UE TEST LOOP COMPLETE            | TC                                                                                                                                                                                                      |
| 28   | ←         |    | RRC CONNECTION RELEASE                | RRC                                                                                                                                                                                                     |
| 29   | →         |    | RRC CONNECTION RELEASE COMPLETE       | RRC                                                                                                                                                                                                     |

### 7.3.17.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.



#### 7.3.17.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

#### 7.3.17.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)" is used, with following exceptions.

| Information Element             | Value/remark                                     | Version |
|---------------------------------|--------------------------------------------------|---------|
| Uplink CLTD info FDD            |                                                  | Rel-11  |
| - CHOICE <i>Mode</i>            | New                                              |         |
| - S-DPCCH Info                  |                                                  |         |
| - S-DPCCH/DPCCH power offset    | 0                                                |         |
| - Initial CLTD activation state | First state                                      |         |
| - Primary CPICH Info            |                                                  |         |
| - Primary Scrambling Code       | Reference to clause 6.1 "Default settings (FDD)" |         |

| Information Element    | Value/remark | Version |
|------------------------|--------------|---------|
| F-TPICH Info           |              | Rel-11  |
| - F-TPICH slot format  | 1            |         |
| - F-TPICH Code number  | 6            |         |
| - F-TPICH frame offset | 1024         |         |

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

#### 7.3.17.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element         | Value/remark                                                                                                                        |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCH and the HS-DPCH) |

### 7.3.18 Test procedure for TX, RX and Performance Requirement for UL OLTD

#### 7.3.18.1 Initial conditions

System Simulator:

- 1 HS-DSCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.

- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.18.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    | PS                              |
| - CN domain identity                              |                                 |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       | 00 00                           |
| - GSM-MAP NAS system information                  |                                 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       | 00(T3212 is set to infinity) 01 |
| - GSM-MAP NAS system information                  |                                 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       | Infinity                        |
| - T305                                            |                                 |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information | FDD                                                 |
| - Secondary CCPCH info               |                                                     |
| - CHOICE mode                        | Not Present                                         |
| - Secondary scrambling code          | FALSE                                               |
| - STTD indicator                     | 64                                                  |
| - Spreading factor                   | 2                                                   |
| - Code number                        | FALSE                                               |
| - Pilot symbol existence             | TRUE (default value)                                |
| - TFCI existence                     | Flexible (default value)                            |
| - Fixed or Flexible position         | Not Present                                         |
| - Timing offset                      | Absence of this IE is equivalent to default value 0 |

### 7.3.18.3 Procedure

| Step | Direction |    | Message                               | Comments                        |
|------|-----------|----|---------------------------------------|---------------------------------|
|      | UE        | SS |                                       |                                 |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                       |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (CS domain, TMSI)        |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                             |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                             |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                             |
| 6    | →         |    | PAGING RESPONSE                       | RR                              |
| 7    | ←         |    | AUTHENTICATION REQUEST                | MM                              |
| 8    | →         |    | AUTHENTICATION RESPONSE               | MM                              |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC (CS domain)                 |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                             |
| 11   | ←         |    | PAGING TYPE2 (DCCH)                   | Paging (TMSI (GSM-MAP)/ P-TMSI) |
| 12   | →         |    | SERVICE REQUEST                       | GMM                             |
| 13   | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                             |
| 14   | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                             |

|     |      |                                 |                                                                                                                                                                                                         |
|-----|------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15  | ←    | SECURITY MODE COMMAND           | RRC (PS domain, IE Integrity protection mode command set to "modify")                                                                                                                                   |
| 16  | →    | SECURITY MODE COMPLETE          | RRC                                                                                                                                                                                                     |
| 17  | ←    | ACTIVATE RB TEST MODE           | TC                                                                                                                                                                                                      |
| 18  | →    | ACTIVATE RB TEST MODE COMPLETE  | TC                                                                                                                                                                                                      |
| 19  | ←    | RADIO BEARER SETUP              | RRC (RAB SETUP RMC 12.2 CS)                                                                                                                                                                             |
| 20  | →    | RADIO BEARER SETUP COMPLETE     | RRC                                                                                                                                                                                                     |
| 21  | ←    | RADIO BEARER SETUP              | RRC (RAB SETUP HSDPA PS)                                                                                                                                                                                |
| 22  | →    | RADIO BEARER SETUP COMPLETE     | RRC                                                                                                                                                                                                     |
| A23 | ←    | CLOSE UE TEST LOOP (DCCH)       | TC (UE test loop mode set up to loop the RMC 12.2 to UL RMC 12.2). Test steps A23, A24, A26 and A27 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A24 | →    | CLOSE UE TEST LOOP COMPLETE     | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated)                                                                                               |
| 25  | <--> |                                 | Perform test                                                                                                                                                                                            |
| A26 | ←    | OPEN UE TEST LOOP               | TC                                                                                                                                                                                                      |
| A27 | →    | OPEN UE TEST LOOP COMPLETE      | TC                                                                                                                                                                                                      |
| 28  | ←    | RRC CONNECTION RELEASE          | RRC                                                                                                                                                                                                     |
| 29  | →    | RRC CONNECTION RELEASE COMPLETE | RRC                                                                                                                                                                                                     |

### 7.3.18.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

#### 7.3.18.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

#### 7.3.18.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)" is used, with following exceptions

| Information Element      | Value/remark | Version |
|--------------------------|--------------|---------|
| Uplink OLTD info FDD     |              | Rel-11  |
| - Uplink OLTD activation | TRUE         |         |

| Information Element    | Value/remark | Version |
|------------------------|--------------|---------|
| F-TPICH Info           |              | Rel-11  |
| - F-TPICH slot format  | 1            |         |
| - F-TPICH Code number  | 6            |         |
| - F-TPICH frame offset | 1024         |         |

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

#### 7.3.18.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element         | Value/remark                                                                                                                        |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCH and the HS-DPCH) |

## 7.3.19 Test procedure for TX, RX and Performance Requirement for UL CLTD with HSDPA & E-DCH

### 7.3.19.1 Initial conditions

System Simulator:

- 1 HS-DSCH plus E-DCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.
- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.19.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    | PS                              |
| - CN domain identity                              |                                 |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       | 00 00                           |
| - GSM-MAP NAS system information                  |                                 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       | 00(T3212 is set to infinity) 01 |
| - GSM-MAP NAS system information                  |                                 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       | Infinity                        |
| - T305                                            |                                 |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                |
|--------------------------------------|-----------------------------|
| - Secondary CCPCH system information | FDD<br>Not Present<br>FALSE |
| - Secondary CCPCH info               |                             |
| - CHOICE mode                        |                             |
| - Secondary scrambling code          |                             |
| - STTD indicator                     |                             |

|                                                     |                          |
|-----------------------------------------------------|--------------------------|
| - Spreading factor                                  | 64                       |
| - Code number                                       | 2                        |
| - Pilot symbol existence                            | FALSE                    |
| - TFCI existence                                    | TRUE (default value)     |
| - Fixed or Flexible position                        | Flexible (default value) |
| - Timing offset                                     | Not Present              |
| Absence of this IE is equivalent to default value 0 |                          |

### 7.3.19.3 Procedure

| Step | Direction |    | Message                               | Comments                                                                                                                                                               |
|------|-----------|----|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | UE        | SS |                                       |                                                                                                                                                                        |
| 1    | ←         |    | SYSTEM INFORMATION (BCCH)             | Broadcast                                                                                                                                                              |
| 2    | ←         |    | PAGING TYPE1 (PCCH)                   | Paging (CS domain, TMSI)                                                                                                                                               |
| 3    | →         |    | RRC CONNECTION REQUEST (CCCH)         | RRC                                                                                                                                                                    |
| 4    | ←         |    | RRC CONNECTION SETUP (CCCH)           | RRC                                                                                                                                                                    |
| 5    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH)  | RRC                                                                                                                                                                    |
| 6    | →         |    | PAGING RESPONSE                       | RR                                                                                                                                                                     |
| 7    | ←         |    | AUTHENTICATION REQUEST                | MM                                                                                                                                                                     |
| 8    | →         |    | AUTHENTICATION RESPONSE               | MM                                                                                                                                                                     |
| 9    | ←         |    | SECURITY MODE COMMAND                 | RRC (CS domain)                                                                                                                                                        |
| 10   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                                                                                                                    |
| 11   | ←         |    | PAGING TYPE2 (DCCH)                   | Paging (TMSI (GSM-MAP)/ P-TMSI)                                                                                                                                        |
| 12   | →         |    | SERVICE REQUEST                       | GMM                                                                                                                                                                    |
| 13   | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                                                                                                                    |
| 14   | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                                                                                                                    |
| 15   | ←         |    | SECURITY MODE COMMAND                 | RRC (PS domain, IE Integrity protection mode command set to "modify")                                                                                                  |
| 16   | →         |    | SECURITY MODE COMPLETE                | RRC                                                                                                                                                                    |
| 17   | ←         |    | ACTIVATE RB TEST MODE                 | TC                                                                                                                                                                     |
| 18   | →         |    | ACTIVATE RB TEST MODE COMPLETE        | TC                                                                                                                                                                     |
| 19   | ←         |    | RADIO BEARER SETUP                    | RRC (RAB SETUP RMC 12.2 CS)                                                                                                                                            |
| 20   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                                                                                                                                    |
| 21   | ←         |    | RADIO BEARER SETUP                    | RRC (RAB SETUP HSDPA and E-DCH PS)                                                                                                                                     |
| 22   | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                                                                                                                                    |
| A23  | ←         |    | CLOSE UE TEST LOOP (DCCH)             | TC (UE test loop mode set up).<br>Test steps A23, A24, A26 and A27 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A24  | →         |    | CLOSE UE TEST LOOP COMPLETE           | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated)                                                              |
| 25   | <-->      |    |                                       | Perform test                                                                                                                                                           |
| A26  | ←         |    | OPEN UE TEST LOOP                     | TC                                                                                                                                                                     |
| A27  | →         |    | OPEN UE TEST LOOP COMPLETE            | TC                                                                                                                                                                     |
| 28   | ←         |    | RRC CONNECTION RELEASE                | RRC                                                                                                                                                                    |
| 29   | →         |    | RRC CONNECTION RELEASE COMPLETE       | RRC                                                                                                                                                                    |

### 7.3.19.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

### 7.3.19.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

### 7.3.19.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA)" is used, with following exceptions:

| Information Element             | Value/remark                                     | Version |
|---------------------------------|--------------------------------------------------|---------|
| Uplink CLTD info FDD            |                                                  | Rel-11  |
| - CHOICE <i>Mode</i>            | New                                              |         |
| - S-DPCCH Info                  |                                                  |         |
| - S-DPCCH/DPCCH power offset    | 0                                                |         |
| - Initial CLTD activation state | First state                                      |         |
| - Primary CPICH Info            |                                                  |         |
| - Primary Scrambling Code       | Reference to clause 6.1 "Default settings (FDD)" |         |

| Information Element    | Value/remark | Version |
|------------------------|--------------|---------|
| F-TPICH Info           |              | Rel-11  |
| - F-TPICH slot format  | 1            |         |
| - F-TPICH Code number  | 6            |         |
| - F-TPICH frame offset | 1024         |         |

The configurations of the fixed reference channels for HSPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.. The configurations of the reference channels for E-DCH RF tests are described in 3GPP TS 34.121[2].

### 7.3.19.4.3 RRC CONNECTION SETUP

For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element         | Value/remark                                                                                                                          |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCCH and the HS-DPCCH) |

## 7.3.20 Test procedure for TX, RX and Performance Requirement for UL OLTD with HSDPA & E-DCH

### 7.3.20.1 Initial conditions

System Simulator:

- 1 HS-DSCH plus E-DCH cell, default parameters.

User Equipment:

- The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.
- The Test-USIM shall be inserted.

- The UE has a valid TMSI (CS) after the execution of the procedure described in clause 7.2.2.1.
- The UE has a valid P-TMSI (PS) after the execution of the procedure described in clause 7.2.2.2.

### 7.3.20.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b are used with the following exceptions.

Contents of System information block type 1: RRC

| Information Element                               | Value/remark                    |
|---------------------------------------------------|---------------------------------|
| - CN domain system information                    |                                 |
| - CN domain identity                              | PS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00 00                           |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - CN domain identity                              | CS                              |
| - CHOICE CN Type                                  | GSM-MAP                         |
| - CN domain specific NAS system information       |                                 |
| - GSM-MAP NAS system information                  | 00(T3212 is set to infinity) 01 |
| - CN domain specific DRX cycle length coefficient | 7                               |
| - UE Timers and constants in connected mode       |                                 |
| - T305                                            | Infinity                        |

Contents of System information block type 3 and 4: RRC

| Information Element | Value/remark |
|---------------------|--------------|
| - Qrxlevmin         | -115         |

Contents of System Information Block type 5 (FDD)

| Information Element                  | Value/remark                                        |
|--------------------------------------|-----------------------------------------------------|
| - Secondary CCPCH system information |                                                     |
| - Secondary CCPCH info               | FDD                                                 |
| - CHOICE mode                        | Not Present                                         |
| - Secondary scrambling code          | FALSE                                               |
| - STTD indicator                     | 64                                                  |
| - Spreading factor                   | 2                                                   |
| - Code number                        | FALSE                                               |
| - Pilot symbol existence             | TRUE (default value)                                |
| - TFCI existence                     | Flexible (default value)                            |
| - Fixed or Flexible position         | Not Present                                         |
| - Timing offset                      | Absence of this IE is equivalent to default value 0 |

### 7.3.20.3 Procedure

| Step | Direction |    | Message                              | Comments                        |
|------|-----------|----|--------------------------------------|---------------------------------|
|      | UE        | SS |                                      |                                 |
| 1    |           | ←  | SYSTEM INFORMATION (BCCH)            | Broadcast                       |
| 2    |           | ←  | PAGING TYPE1 (PCCH)                  | Paging (CS domain, TMSI)        |
| 3    |           | →  | RRC CONNECTION REQUEST (CCCH)        | RRC                             |
| 4    |           | ←  | RRC CONNECTION SETUP (CCCH)          | RRC                             |
| 5    |           | →  | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC                             |
| 6    |           | →  | PAGING RESPONSE                      | RR                              |
| 7    |           | ←  | AUTHENTICATION REQUEST               | MM                              |
| 8    |           | →  | AUTHENTICATION RESPONSE              | MM                              |
| 9    |           | ←  | SECURITY MODE COMMAND                | RRC (CS domain)                 |
| 10   |           | →  | SECURITY MODE COMPLETE               | RRC                             |
| 11   |           | ←  | PAGING TYPE2 (DCCH)                  | Paging (TMSI (GSM-MAP)/ P-TMSI) |
| 12   |           | →  | SERVICE REQUEST                      | GMM                             |
| 13   |           | ←  | AUTHENTICATION AND CIPHERING REQUEST | GMM                             |

|     |      |                                       |                                                                                                                                                                                                         |
|-----|------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14  | →    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                                                                                                                                                     |
| 15  | ←    | SECURITY MODE COMMAND                 | RRC (PS domain, IE Integrity protection mode command set to "modify")                                                                                                                                   |
| 16  | →    | SECURITY MODE COMPLETE                | RRC                                                                                                                                                                                                     |
| 17  | ←    | ACTIVATE RB TEST MODE                 | TC                                                                                                                                                                                                      |
| 18  | →    | ACTIVATE RB TEST MODE COMPLETE        | TC                                                                                                                                                                                                      |
| 19  | ←    | RADIO BEARER SETUP                    | RRC (RAB SETUP RMC 12.2 CS)                                                                                                                                                                             |
| 20  | →    | RADIO BEARER SETUP COMPLETE           | RRC                                                                                                                                                                                                     |
| 21  | ←    | RADIO BEARER SETUP                    | RRC (RAB SETUP HSDPA and E-DCH PS)                                                                                                                                                                      |
| 22  | →    | RADIO BEARER SETUP COMPLETE           | RRC                                                                                                                                                                                                     |
| A23 | ←    | CLOSE UE TEST LOOP (DCCH)             | TC (UE test loop mode set up to loop the RMC 12.2 to UL RMC 12.2). Test steps A23, A24, A26 and A27 are only executed when the test method in TS 34.121 [2] specifies that loopback test shall be used. |
| A24 | →    | CLOSE UE TEST LOOP COMPLETE           | TC (confirms that loopback entities for the radio bearer(s) have been created and loop back is activated)                                                                                               |
| 25  | <--> |                                       | Perform test                                                                                                                                                                                            |
| A26 | ←    | OPEN UE TEST LOOP                     | TC                                                                                                                                                                                                      |
| A27 | →    | OPEN UE TEST LOOP COMPLETE            | TC                                                                                                                                                                                                      |
| 28  | ←    | RRC CONNECTION RELEASE                | RRC                                                                                                                                                                                                     |
| 29  | →    | RRC CONNECTION RELEASE COMPLETE       | RRC                                                                                                                                                                                                     |

### 7.3.20.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

#### 7.3.20.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE.

Contents of Attach Accept message: GMM

| Information Element      | Value/remark              |
|--------------------------|---------------------------|
| Periodic RA update timer | E0 (timer is deactivated) |

#### 7.3.20.4.2 RADIO BEARER SETUP

For step 19, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)" is used with condition A1. For step 21, the message in clause 9.2, "Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA)" is used, with following exceptions.

| Information Element      | Value/remark | Version |
|--------------------------|--------------|---------|
| Uplink OLTD info FDD     |              | Rel-11  |
| - Uplink OLTD activation | TRUE         |         |

| Information Element    | Value/remark | Version |
|------------------------|--------------|---------|
| F-TPICH Info           |              | Rel-11  |
| - F-TPICH slot format  | 1            |         |
| - F-TPICH Code number  | 6            |         |
| - F-TPICH frame offset | 1024         |         |

The configurations of the fixed reference channels for HSPA RF tests are described in 3GPP TS 34.121[2], annex C for FDD and 3GPP TS 34.122 [5], annex C for TDD.

#### 7.3.20.4.3 RRC CONNECTION SETUP



For step 4, the message in clause 9.2, "Contents of RRC CONNECTION SETUP message: UM" is used with the following exceptions:

Contents of RRC CONNECTION SETUP message: UM

| Information Element         | Value/remark                                                                                                                        |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| - Default DPCH Offset Value | Arbitrary set to value 1536..306176 by step of 2560 (this corresponds to a 0.5 slot timing offset between the DPCH and the HS-DPCH) |

## 7.4 Common generic procedures for AS testing

### 7.4.1 UE RRC Test States for common procedures

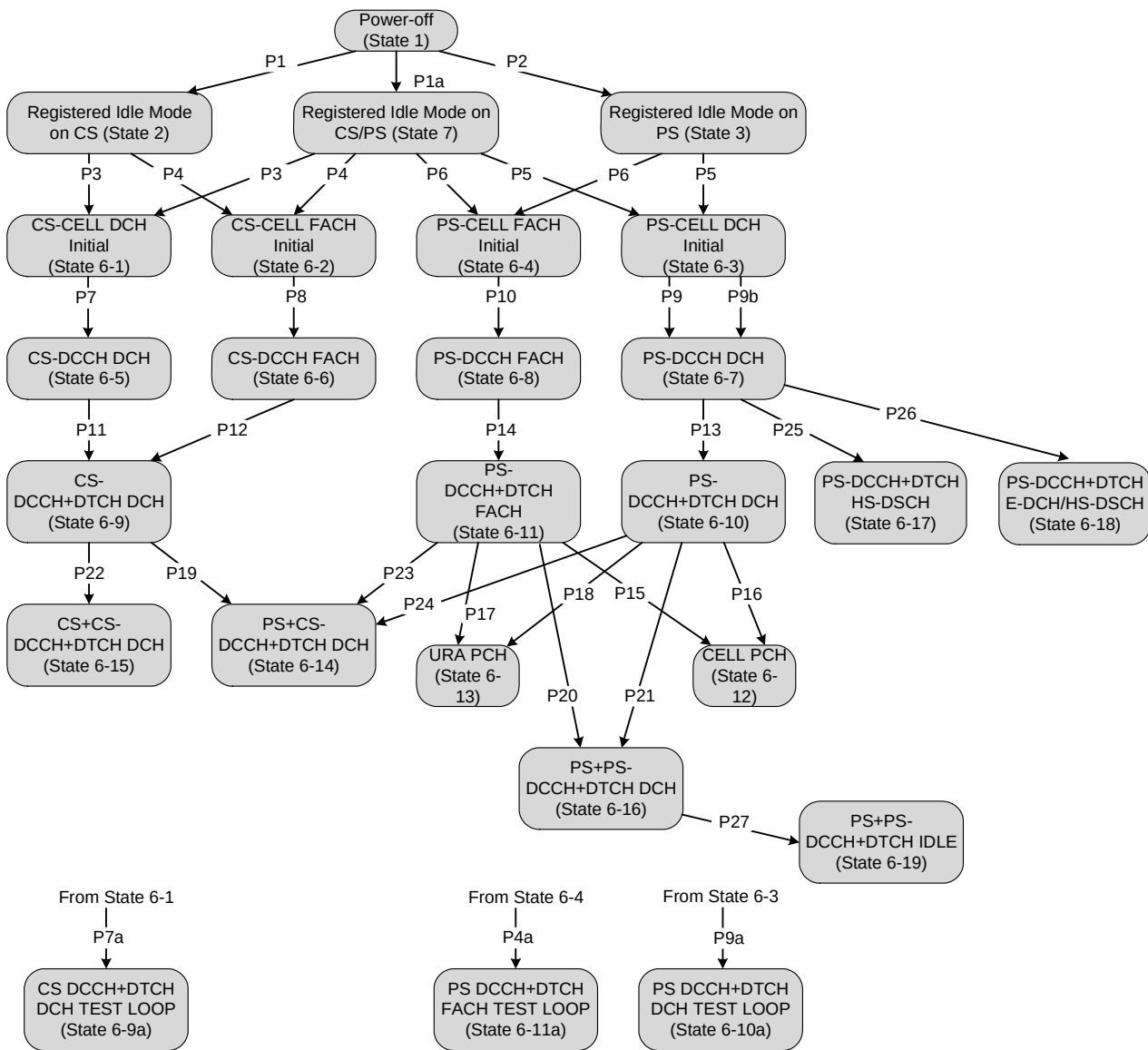


Figure 7.4.1.1: UE RRC test initial states and common procedures

For UE to set up a call in UTRAN there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.4.1.1; the operating states for various protocols in the UE are given in table 7.4.1.1.

It is noted that figure 7.4.1.1 should not be construed as a formal state transition diagram, in any manner. The intention here is to define the starting state of UE following the execution of the procedures indicated above.

**Table 7.4.1.1: The UE states**

|                      |                               | <b>RRC</b>            | <b>CC</b> | <b>MM</b>            | <b>SM</b>          | <b>GMM</b>       |
|----------------------|-------------------------------|-----------------------|-----------|----------------------|--------------------|------------------|
| State 1              | Power OFF                     | -----                 | Null      | Null                 | Pdp-Inactive       | GMM-null         |
| State 2              | Registered Idle Mode on CS    | Idle                  | Null      | MM Idle              | Pdp-Inactive       | GMM-deregistered |
| State 3              | Registered Idle Mode on PS    | Idle                  | Null      | Null                 | Pdp-Inactive       | GMM-registered   |
| State 7              | Registered Idle Mode on CS/PS | Idle                  | Null      | MM Idle              | Pdp-Inactive       | GMM-registered   |
| State BGP6-1         | CS-CELL_DCH_Initial           | Connected             | Null      | MM Idle              | Pdp-Inactive       | As previous      |
| State BGP6-2         | CS-CELL_FACH_Initial          | Connected             | Null      | MM Idle              | Pdp-Inactive       | As previous      |
| State BGP6-3         | PS-CELL_DCH_Initial           | Connected             | Null      | As previous          | Pdp-Inactive       | GMM registered   |
| State BGP6-4         | PS-CELL_FACH_Initial          | Connected             | Null      | As previous          | Pdp-Inactive       | GMM registered   |
| State BGP6-5         | CS-DCCH_DCH                   | Connected (CELL_DCH)  | Null      | MM Idle              | Pdp-Inactive       | As previous      |
| State BGP6-6         | CS-DCCH_FACH                  | Connected (CELL_FACH) | Null      | MM Idle              | Pdp-Inactive       | As previous      |
| State BGP6-7 (NOTE1) | PS-DCCH_DCH                   | Connected (CELL_DCH)  | Null      | As previous          | Pdp-Active pending | GMM registered   |
| State BGP6-8         | PS-DCCH_FACH                  | Connected (CELL_FACH) | Null      | As previous          | Pdp-Active pending | GMM registered   |
| State BGP6-9         | CS-DCCH+DTCH_DCH              | Connected (CELL_DCH)  | Active    | MM connection active | Pdp-Inactive       | As previous      |
| State BGP6-9a        | CS-DCCH+DTCH_DCH_TEST_LOOP    | Connected (CELL_DCH)  | Null      | MM Idle              | Pdp-Inactive       | As previous      |
| State BGP6-10        | PS-DCCH+DTCH_DCH              | Connected (CELL_DCH)  | Null      | As previous          | Pdp-Active         | GMM registered   |
| State BGP6-10a       | PS-DCCH+DTCH_DCH_TEST_LOOP    | Connected (CELL_DCH)  | Null      | As previous          | Pdp-Inactive       | GMM registered   |
| State BGP6-11        | PS-DCCH+DTCH_FACH             | Connected (CELL_FACH) | Null      | As previous          | Pdp-Active         | GMM registered   |
| State BGP6-11a       | PS-DCCH+DTCH_FACH_TEST_LOOP   | Connected (CELL_FACH) | Null      | As previous          | Pdp-Inactive       | GMM registered   |
| State BGP6-12        | CELL_PCH                      | Connected (CELL_PCH)  | Null      | As previous          | Pdp-Inactive       | GMM registered   |
| State BGP6-13        | URA_PCH                       | Connected (URA_PCH)   | Null      | As previous          | Pdp-Inactive       | GMM registered   |
| State BGP6-14        | PS+CS-DCCH+DTCH_DCH           | Connected (CELL_DCH)  | Active    | MM connection active | Pdp-Active         | GMM registered   |
| State BGP6-15        | CS+CS-DCCH+DTCH_DCH           | Connected (CELL_DCH)  | Active    | MM connection active | Pdp-Inactive       | As previous      |
| State BGP6-16        | PS+PS-DCCH+DTCH_DCH           | Connected (CELL_DCH)  | Null      | As previous          | Pdp-Active         | GMM registered   |
| State BGP6-17        | PS-DCCH+DTCH_HS-DSCH          | Connected (CELL_DCH)  | Null      | As previous          | Pdp-Active         | GMM registered   |
| State BGP6-18        | PS-DCCH+DTCH_E-DCH/HS-DSCH    | Connected (CELL_DCH)  | Null      | As previous          | Pdp-Active         | GMM registered   |
| State BGP6-19        | PS+PS-DCCH+DTCH_Idle          | Idle                  | Null      | MM Idle              | Pdp-Active         | GMM registered   |

NOTE1: The default procedure to move from state BGP6-1 to state BGP6-7 is the procedure P9.

State 1, state 2, state 3, P1, P2 and P1a are described in clause 7.2.

## 7.4.2 Generic Setup Procedure for RRC test cases

### 7.4.2.1 RRC connection establishment procedure for circuit-switched calls (procedure P3 and P4)

#### 7.4.2.1.1 Mobile terminating call

##### 7.4.2.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions as specified in the present document.
- The Test USIM shall be inserted.

##### 7.4.2.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

##### 7.4.2.1.1.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                              | Comments |
|------|-----------|----|--------------------------------------|----------|
|      | UE        | SS |                                      |          |
| 1    |           | ←  | PAGING TYPE 1 (PCCH)                 | RRC      |
| 2    | →         |    | RRC CONNECTION REQUEST (CCCH)        | RRC      |
| 3    | ←         |    | RRC CONNECTION SETUP (CCCH)          | RRC      |
| 4    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC      |
| 5    | →         |    | PAGING RESPONSE                      | RR       |

##### 7.4.2.1.1.4 Specific message contents

To execute procedure P3, all specific message contents shall be referred to clause 9.

To execute procedure P4, all specific message contents with the exception of step 3 shall be referred to clause 9. For step 3, the message of the same type titled "Transition to CELL\_FACH" in clause 9 is used.

#### 7.4.2.1.2 Mobile originating calls

##### 7.4.2.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions as specified in the present document.
- The Test USIM shall be inserted.

##### 7.4.2.1.2.2 Definition of system information messages

The default system information messages specified in clause 6.1 are used.

##### 7.4.2.1.2.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                              | Comments |
|------|-----------|----|--------------------------------------|----------|
|      | UE        | SS |                                      |          |
| 1    | →         |    | RRC CONNECTION REQUEST (CCCH)        | RRC      |
| 2    | ←         |    | RRC CONNECTION SETUP (CCCH)          | RRC      |
| 3    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC      |
| 4    | →         |    | CM SERVICE REQUEST                   | MM       |

#### 7.4.2.1.2.4 Specific message contents

To execute procedure P3, all specific message contents shall be referred to clause 9.

To execute procedure P4, all specific message contents with the exception of step 2 shall be referred to clause 9. For step 2, the message of the same type titled "Transition to CELL\_FACH" in clause 9 is used.

### 7.4.2.2 RRC connection establishment procedure for packet switched sessions (procedure P5 and P6)

#### 7.4.2.2.1 Mobile terminating session

##### 7.4.2.2.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions as specified in the present document.
- The Test USIM shall be inserted.

##### 7.4.2.2.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

##### 7.4.2.2.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                              | Comments |
|------|-----------|----|--------------------------------------|----------|
|      | UE        | SS |                                      |          |
| 1    | ←         |    | PAGING TYPE1 (PCCH)                  | Paging   |
| 2    | →         |    | RRC CONNECTION REQUEST (CCCH)        | RRC      |
| 3    | ←         |    | RRC CONNECTION SETUP (CCCH)          | RRC      |
| 4    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC      |
| 5    | →         |    | SERVICE REQUEST                      | GMM      |

#### 7.4.2.2.1.4 Specific message contents

To execute procedure P5, all specific message contents shall be referred to clause 9.

To execute procedure P6, all specific message contents with the exception of step 3 shall be referred to clause 9. For step 3, the message of the same type titled "Transition to CELL\_FACH" in clause 9 is used.

#### 7.4.2.2.2 Mobile originating sessions

##### 7.4.2.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions as specified in the present document.

- The Test USIM shall be inserted.

#### 7.4.2.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

#### 7.4.2.2.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                              | Comments |
|------|-----------|----|--------------------------------------|----------|
|      | UE        | SS |                                      |          |
| 1    | →         |    | RRC CONNECTION REQUEST (CCCH)        | RRC      |
| 2    | ←         |    | RRC CONNECTION SETUP (CCCH)          | RRC      |
| 3    | →         |    | RRC CONNECTION SETUP COMPLETE (DCCH) | RRC      |
| 4    | →         |    | SERVICE REQUEST                      | GMM      |

#### 7.4.2.2.2.4 Specific message contents

To execute procedure P5, all specific message contents shall be referred to clause 9.

To execute procedure P6, all specific message contents with the exception of step 2 shall be referred to clause 9. For step 2, the message of the same type titled "Transition to CELL\_FACH" in clause 9 is used.

### 7.4.2.3 NAS call set up procedure for circuit switched calls (procedure P7 and P8)

#### 7.4.2.3.1 Mobile terminating call

##### 7.4.2.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1 or state 6-2.
- The Test USIM shall be inserted.

#### 7.4.2.3.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

#### 7.4.2.3.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                 | Comments |
|------|-----------|----|-------------------------|----------|
|      | UE        | SS |                         |          |
| 1    | ←         |    | AUTHENTICATION REQUEST  | MM       |
| 2    | →         |    | AUTHENTICATION RESPONSE | MM       |
| 3    | ←         |    | SECURITY MODE COMMAND   | RRC      |
| 4    | →         |    | SECURITY MODE COMPLETE  | RRC      |
| 5    | ←         |    | SET UP                  | CC       |
| 6    | →         |    | CALL CONFIRMED          | CC       |

#### 7.4.2.3.1.4 Specific message contents

All RRC specific message contents shall be referred to clause 9.

### 7.4.2.3.2 Mobile originating calls

#### 7.4.2.3.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1 or state 6-2.
- The Test USIM shall be inserted.

#### 7.4.2.3.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

#### 7.4.2.3.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                 | Comments |
|------|-----------|----|-------------------------|----------|
|      | UE        | SS |                         |          |
| 1    | ←         |    | AUTHENTICATION REQUEST  | MM       |
| 2    | →         |    | AUTHENTICATION RESPONSE | MM       |
| 3    | ←         |    | SECURITY MODE COMMAND   | RRC      |
| 4    | →         |    | SECURITY MODE COMPLETE  | RRC      |
| 5    | →         |    | SET UP                  | CC       |
| 6    | ←         |    | CALL PROCEEDING         | CC       |

#### 7.4.2.3.2.4 Specific message contents

All RRC specific message contents shall be referred to clause 9.

### 7.4.2.4 NAS session activation procedure for packet switched sessions (procedure P9 and P10)

#### 7.4.2.4.1 Mobile terminating session

##### 7.4.2.4.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-3 or state 6-4.
- The Test USIM shall be inserted.

##### 7.4.2.4.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

##### 7.4.2.4.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                               | Comments |
|------|-----------|----|---------------------------------------|----------|
|      | UE        | SS |                                       |          |
| 1    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM      |
| 2    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM      |
| 3    | ←         |    | SECURITY MODE COMMAND                 | RRC      |
| 4    | →         |    | SECURITY MODE COMPLETE                | RRC      |

|   |   |                                |    |
|---|---|--------------------------------|----|
| 5 | ← | REQUEST PDP CONTEXT ACTIVATION | SM |
| 6 | → | ACTIVATE PDP CONTEXT REQUEST   | SM |

#### 7.4.2.4.1.4 Specific message contents

All RRC specific message contents shall be referred to clause 9.

#### 7.4.2.4.2 Mobile originating sessions

##### 7.4.2.4.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-3 or state 6-4.
- The Test USIM shall be inserted.

##### 7.4.2.4.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

##### 7.4.2.4.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                               | Comments |
|------|-----------|----|---------------------------------------|----------|
|      | UE        | SS |                                       |          |
| 1    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM      |
| 2    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM      |
| 3    | ←         |    | SECURITY MODE COMMAND                 | RRC      |
| 4    | →         |    | SECURITY MODE COMPLETE                | RRC      |
| 5    | →         |    | ACTIVATE PDP CONTEXT REQUEST          | SM       |

##### 7.4.2.4.2.4 Specific message contents

All RRC specific message contents shall be referred to clause 9.

#### 7.4.2.4a NAS session activation procedure for packet switched sessions with active set update (procedure P9b)

##### 7.4.2.4a.1 Mobile terminating session

##### 7.4.2.4a.1.1 Initial conditions

System Simulator:

- 1 serving cell default parameters. 1 neighbour cell.

User Equipment:

- The UE shall be in state 6-3.
- The Test USIM shall be inserted.

##### 7.4.2.4a.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

## 7.4.2.4a.1.3 Procedure

| Step | Direction |    | Message                               | Comments                                                                                         |
|------|-----------|----|---------------------------------------|--------------------------------------------------------------------------------------------------|
|      | UE        | SS |                                       |                                                                                                  |
| 1    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                                              |
| 2    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                                              |
| 3    | ←         |    | SECURITY MODE COMMAND                 | RRC                                                                                              |
| 4    | →         |    | SECURITY MODE COMPLETE                | RRC                                                                                              |
| 5    | ←         |    | REQUEST PDP CONTEXT ACTIVATION        | SM                                                                                               |
| 6    | →         |    | ACTIVATE PDP CONTEXT REQUEST          | SM                                                                                               |
| 7    |           |    |                                       | Set the power level of the neighbour cell to -60dBm. Any MEASUREMENT REPORT received is ignored. |
| 8    | ←         |    | ACTIVE SET UPDATE                     | RRC                                                                                              |
| 9    | →         |    | ACTIVE SET UPDATE COMPLETE            | RRC                                                                                              |

## 7.4.2.4a.1.4 Specific message contents

All RRC specific message contents shall be referred to clause 9 with the following exceptions.

## ACTIVE SET UPDATE (Step 8)

| Information Element                          | Value/remark                                                                    | Version            |
|----------------------------------------------|---------------------------------------------------------------------------------|--------------------|
| Radio link addition information              |                                                                                 |                    |
| - Primary CPICH Info                         |                                                                                 |                    |
| - Primary Scrambling Code                    | Set to the Primary Scrambling Code of neighbour cell. Refer to clause 6.1.      |                    |
| - Downlink DPCH info for each RL             |                                                                                 |                    |
| - CHOICE mode                                | FDD                                                                             |                    |
| - Primary CPICH usage for channel estimation | P-CPICH can be used.                                                            |                    |
| - DPCH frame offset                          | Calculated value from cells timing information                                  |                    |
| - Secondary CPICH info                       | Not Present                                                                     |                    |
| - DL channelisation code                     |                                                                                 |                    |
| - Secondary scrambling code                  | 1                                                                               |                    |
| - Spreading factor                           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |                    |
| - Code Number                                | 0                                                                               |                    |
| - Scrambling code change                     | Not Present                                                                     |                    |
| - TPC Combination Index                      | 0                                                                               |                    |
| - SSDT Cell Identity                         | Not Present                                                                     | R99 and Rel-4 only |
| - Close loop timing adjustment mode          | Not Present                                                                     |                    |
| - TFCI Combining Indicator                   | FALSE                                                                           |                    |
| - SCCPCH information for FACH                | Not Present                                                                     | R99 and Rel-4 only |

## 7.4.2.4a.2 Mobile originating sessions

## 7.4.2.4a.2.1 Initial conditions

System Simulator:

- 1 serving cell default parameters. 1 neighbour cell.

User Equipment:

- The UE shall be in 6-3.
- The Test USIM shall be inserted.

## 7.4.2.4a.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

## 7.4.2.4a.2.3 Procedure



| Step | Direction |    | Message                               | Comments                                                                                         |
|------|-----------|----|---------------------------------------|--------------------------------------------------------------------------------------------------|
|      | UE        | SS |                                       |                                                                                                  |
| 1    |           | ←  | AUTHENTICATION AND CIPHERING REQUEST  | GMM                                                                                              |
| 2    |           | →  | AUTHENTICATION AND CIPHERING RESPONSE | GMM                                                                                              |
| 3    |           | ←  | SECURITY MODE COMMAND                 | RRC                                                                                              |
| 4    |           | →  | SECURITY MODE COMPLETE                | RRC                                                                                              |
| 5    |           | →  | ACTIVATE PDP CONTEXT REQUEST          | SM                                                                                               |
| 6    |           |    |                                       | Set the power level of the neighbour cell to -60dBm. Any MEASUREMENT REPORT received is ignored. |
| 7    |           | ←  | ACTIVE SET UPDATE                     | RRC                                                                                              |
| 8    |           | →  | ACTIVE SET UPDATE COMPLETE            | RRC                                                                                              |

#### 7.4.2.4a.2.4 Specific message contents

All RRC specific message contents shall be referred to clause 9 with the following exceptions.

ACTIVE SET UPDATE (Step 7) same as ACTIVE SET UPDATE (Step 8) in clause 7.4.2.4a.1.4.

### 7.4.2.5 Radio access bearer establishment procedure for circuit switched calls (procedure P11 and P12)

#### 7.4.2.5.1 Mobile terminating call

##### 7.4.2.5.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-5 or state 6-6.
- The Test USIM shall be inserted.

##### 7.4.2.5.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

##### 7.4.2.5.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                     | Comments                      |
|------|-----------|----|-----------------------------|-------------------------------|
|      | UE        | SS |                             |                               |
| 1    |           | ←  | RADIO BEARER SETUP          | RRC RAB SETUP                 |
| 2    |           | →  | RADIO BEARER SETUP COMPLETE | RRC                           |
| 3    |           | →  | ALERTING                    | CC (This message is optional) |
| 4    |           | →  | CONNECT                     | CC                            |
| 5    |           | ←  | CONNECT ACKNOWLEDGE         | CC                            |

#### 7.4.2.5.1.4 Specific message contents

To execute procedure P11, use the message titled "CS speech" (defined in clause 9) for the message in step 1. To execute procedure 12, use the message "The others of speech in CS" (defined in clause 9) for the message in step 1.

### 7.4.2.5.2 Mobile originating calls

#### 7.4.2.5.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-5 or state 6-6.
- The Test USIM shall be inserted.

#### 7.4.2.5.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

#### 7.4.2.5.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                     | Comments      |
|------|-----------|----|-----------------------------|---------------|
|      | UE        | SS |                             |               |
| 1    | ←         |    | RADIO BEARER SETUP          | RRC RAB SETUP |
| 2    | →         |    | RADIO BEARER SETUP COMPLETE | RRC           |
| 3    | ←         |    | ALERTING                    | CC            |
| 4    | ←         |    | CONNECT                     | CC            |
| 5    | →         |    | CONNECT ACKNOWLEDGE         | CC            |

#### 7.4.2.5.2.4 Specific message contents

To execute procedure P11, use the message titled "CS speech" (defined in clause 9) for the message in step 1. To execute procedure 12, use the message "The others of speech in CS" (defined in clause 9) for the message in step 1.

#### 7.4.2.5a Test loop activation and radio access bearer establishment procedure for circuit switched calls (procedure P7a)

##### 7.4.2.5a.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1.
- The Test USIM shall be inserted.

#### 7.4.2.5a.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

#### 7.4.2.5a.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                               | Comments                                                |
|------|-----------|----|---------------------------------------|---------------------------------------------------------|
|      | UE        | SS |                                       |                                                         |
| 1    | ←         |    | AUTHENTICATION REQUEST                | MM                                                      |
| 2    | →         |    | AUTHENTICATION RESPONSE               | MM                                                      |
| 3    | ←         |    | SECURITY MODE COMMAND                 | RRC                                                     |
| 4    | →         |    | SECURITY MODE COMPLETE                | RRC                                                     |
| 5    | ←         |    | ACTIVATE RB TEST MODE (DCCH)          | TC                                                      |
| 6    | →         |    | ACTIVATE RB TEST MODE COMPLETE (DCCH) | TC                                                      |
| 1    | ←         |    | RADIO BEARER SETUP                    | RRC RAB SETUP                                           |
| 2    | →         |    | RADIO BEARER SETUP COMPLETE           | RRC                                                     |
| 14   | ←         |    | CLOSE UE TEST LOOP (DCCH)             | TC                                                      |
|      |           |    |                                       | UE test mode 1                                          |
|      |           |    |                                       | RLC SDU size set as specified for the actual test case. |
| 15   | →         |    | CLOSE UE TEST LOOP COMPLETE (DCCH)    | TC                                                      |

#### 7.4.2.5a.4 Specific message contents

To execute procedure P7a, use the message titled "CS speech" (defined in clause 9) for the message in step 1.

#### 7.4.2.6 Radio access bearer establishment procedure for packet switched sessions (procedure P13, P14, P25 and P26)

##### 7.4.2.6.1 Mobile terminating session

##### 7.4.2.6.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-7 or state 6-8.
- The Test USIM shall be inserted.

##### 7.4.2.6.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

##### 7.4.2.6.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                     | Comments      |
|------|-----------|----|-----------------------------|---------------|
|      | UE        | SS |                             |               |
| 1    | ←         |    | RADIO BEARER SETUP          | RRC RAB SETUP |
| 2    | →         |    | RADIO BEARER SETUP COMPLETE | RRC           |
| 3    | ←         |    | ACTIVATE PDP CONTEXT ACCEPT | SM            |

##### 7.4.2.6.1.4 Specific message contents

For step 1, the messages in clause 9 are used. To execute procedure P13, use the message titled "Packet to CELL\_DCH from CELL\_DCH in PS". To execute procedure P14, use the message titled "Packet to CELL\_FACH from CELL\_FACH in PS". To execute procedure P25, use the message titled "Packet to CELL\_DCH / HS-DSCH from CELL\_DCH in PS". To execute procedure P26, use the RADIO BEARER SETUP message with one of the conditions A12, A13, A14, A15, A16, A19, A20, A21 or A22.

Contents of ACTIVATE PDP CONTEXT ACCEPT message: DCCH-AM (Step 3)

| Information Element     |      | Value/remark |
|-------------------------|------|--------------|
| WLAN offload indication | WLAN | '0010'B      |

| Condition | Explanation                                   |
|-----------|-----------------------------------------------|
| WLAN      | For RAN Assisted WLAN interworking test cases |

##### 7.4.2.6.2 Mobile originating sessions

##### 7.4.2.6.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-7 or state 6-8.

- The Test USIM shall be inserted.

#### 7.4.2.6.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

#### 7.4.2.6.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                     | Comments      |
|------|-----------|----|-----------------------------|---------------|
|      | UE        | SS |                             |               |
| 1    | ←         |    | RADIO BEARER SETUP          | RRC RAB SETUP |
| 2    | →         |    | RADIO BEARER SETUP COMPLETE | RRC           |
| 3    | ←         |    | ACTIVATE PDP CONTEXT ACCEPT | SM            |

#### 7.4.2.6.2.4 Specific message contents

For step 1, the messages in clause 9 are used. To execute procedure P13, use the message titled "Packet to CELL\_DCH from CELL\_DCH in PS". To execute procedure P14, use the message titled "Packet to CELL\_FACH from CELL\_FACH in PS". To execute procedure P25, use the message titled "Packet to CELL\_DCH / HS-DSCH from CELL\_DCH in PS". To execute procedure P26, use the RADIO BEARER SETUP message with one of the conditions A12, A13, A14, A15 or A16.

Contents of ACTIVATE PDP CONTEXT ACCEPT message: DCCH-AM (Step 3)

| Information Element     |      | Value/remark |
|-------------------------|------|--------------|
| WLAN offload indication | WLAN | '0010'B      |

| Condition | Explanation                                   |
|-----------|-----------------------------------------------|
| WLAN      | For RAN Assisted WLAN interworking test cases |

#### 7.4.2.6a Test loop activation and radio access bearer establishment procedure for packet switched sessions (procedure P4a and P9a)

##### 7.4.2.6a.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-3 or state 6-4.
- The Test USIM shall be inserted.

#### 7.4.2.6a.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

#### 7.4.2.6a.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                               | Comments |
|------|-----------|----|---------------------------------------|----------|
|      | UE        | SS |                                       |          |
| 1    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM      |
| 2    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM      |
| 3    | ←         |    | SECURITY MODE COMMAND                 | RRC      |
| 4    | →         |    | SECURITY MODE COMPLETE                | RRC      |
| 5    | ←         |    | ACTIVATE RB TEST MODE (DCCH)          | TC       |
| 6    | →         |    | ACTIVATE RB TEST MODE COMPLETE (DCCH) | TC       |

|    |   |                                    |                                                                                 |
|----|---|------------------------------------|---------------------------------------------------------------------------------|
| 7  | ← | RADIO BEARER SETUP                 | RRC RAB SETUP. The 'pdcp info' IE shall be omitted.                             |
| 8  | → | RADIO BEARER SETUP COMPLETE        | RRC                                                                             |
| 14 | ← | CLOSE UE TEST LOOP (DCCH)          | TC<br>UE test mode 1<br>RLC SDU size set as specified for the actual test case. |
| 15 | → | CLOSE UE TEST LOOP COMPLETE (DCCH) | TC                                                                              |

#### 7.4.2.6a.4 Specific message contents

For step 1, the messages in clause 9 are used. To execute procedure P9a, use the message titled "Packet to CELL\_DCH from CELL\_DCH in PS". To execute procedure 4a, use the message titled "Packet to CELL\_FACH from CELL\_FACH in PS" with the exception that the 'pdcp info' IE shall be omitted.

#### 7.4.2.7 Procedure for transitions to CELL\_PCH or URA\_PCH state (procedure P15, P16, P17 and P18)

##### 7.4.2.7.1 Transition to CELL\_PCH (procedure P15 and P16)

###### 7.4.2.7.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

###### 7.4.2.7.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

###### 7.4.2.7.1.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                                   | Comments |
|------|-----------|----|-------------------------------------------|----------|
|      | UE        | SS |                                           |          |
| 1    | ←         |    | PHYSICAL CHANNEL RECONFIGURATION          | RRC      |
| 2    | →         |    | PHYSICAL CHANNEL RECONFIGURATION COMPLETE | RRC      |

###### 7.4.2.7.1.4 Specific message contents

Contents of PHYSICAL CHANNEL RECONFIGURATION message: DCCH-AM (Step 1)

| Information Element | Value/remark |
|---------------------|--------------|
| Message Type        |              |
| RRC State Indicator | CELL_PCH     |

##### 7.4.2.7.2 Transition to URA\_PCH (procedure P17 and P18)

###### 7.4.2.7.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.

- The Test USIM shall be inserted.

#### 7.4.2.7.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

#### 7.4.2.7.2.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                                   | Comments |
|------|-----------|----|-------------------------------------------|----------|
|      | UE        | SS |                                           |          |
| 1    |           | ←  | PHYSICAL CHANNEL RECONFIGURATION          | RRC      |
| 2    |           | →  | PHYSICAL CHANNEL RECONFIGURATION COMPLETE | RRC      |

#### 7.4.2.7.2.4 Specific message contents

Contents of PHYSICAL CHANNEL RECONFIGURATION message: DCCH-AM (Step 1)

| Information Element | Value/remark |
|---------------------|--------------|
| Message Type        |              |
| RRC State Indicator | URA_PCH      |

### 7.4.2.8 Radio access bearer establishment procedure with packet switched sessions for transitions to Multi Call state (procedure P19, 20 and 21)

#### 7.4.2.8.1 Transition to PS+CS-DCCH+DTCH DCH (procedure P19)

##### 7.4.2.8.1.1 Mobile terminating session

##### 7.4.2.8.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall have registered in CS/PS.
- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

#### 7.4.2.8.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

#### 7.4.2.8.1.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                               | Comments      |
|------|-----------|----|---------------------------------------|---------------|
|      | UE        | SS |                                       |               |
| 1    |           | ←  | PAGING TYPE2 (DCCH)                   | Paging        |
| 2    |           | →  | SERVICE REQUEST                       | GMM           |
| 3    |           | ←  | AUTHENTICATION AND CIPHERING REQUEST  | GMM           |
| 4    |           | →  | AUTHENTICATION AND CIPHERING RESPONSE | GMM           |
| 5    |           | ←  | SECURITY MODE COMMAND                 | RRC           |
| 6    |           | →  | SECURITY MODE COMPLETE                | RRC           |
| 7    |           | ←  | REQUEST PDP CONTEXT ACTIVATION        | SM            |
| 8    |           | →  | ACTIVATE PDP CONTEXT REQUEST          | SM            |
| 9    |           | ←  | RADIO BEARER SETUP                    | RRC RAB SETUP |
| 10   |           | →  | RADIO BEARER SETUP COMPLETE           | RRC           |
| 11   |           | ←  | ACTIVATE PDP CONTEXT ACCEPT           | SM            |

#### 7.4.2.8.1.1.4 Specific message contents

FFS

#### 7.4.2.8.1.2 Mobile originating sessions

##### 7.4.2.8.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

##### 7.4.2.8.1.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

##### 7.4.2.8.1.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                               | Comments      |
|------|-----------|----|---------------------------------------|---------------|
|      | UE        | SS |                                       |               |
| 1    | →         |    | SERVICE REQUEST                       | GMM           |
| 2    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM           |
| 3    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM           |
| 4    | ←         |    | SECURITY MODE COMMAND                 | RRC           |
| 5    | →         |    | SECURITY MODE COMPLETE                | RRC           |
| 6    | →         |    | ACTIVATE PDP CONTEXT REQUEST          | SM            |
| 7    | ←         |    | RADIO BEARER SETUP                    | RRC RAB SETUP |
| 8    | →         |    | RADIO BEARER SETUP COMPLETE           | RRC           |
| 9    | ←         |    | ACTIVATE PDP CONTEXT ACCEPT           | SM            |

#### 7.4.2.8.1.2.4 Specific message contents

FFS

#### 7.4.2.8.2 Transition to PS+PS-DCCH+DTCH DCH (procedure P20 and P21)

##### 7.4.2.8.2.1 Mobile terminating session

##### 7.4.2.8.2.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

##### 7.4.2.8.2.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

##### 7.4.2.8.2.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                        | Comments      |
|------|-----------|----|--------------------------------|---------------|
|      | UE        | SS |                                |               |
| 1    | ←         |    | PAGING TYPE2 (DCCH)            | Paging        |
| 2    | →         |    | SERVICE REQUEST                | GMM           |
| 3    | ←         |    | SERVICE ACCEPT                 | GMM           |
| 4    | ←         |    | REQUEST PDP CONTEXT ACTIVATION | SM            |
| 5    | →         |    | ACTIVATE PDP CONTEXT REQUEST   | SM            |
| 6    | ←         |    | RADIO BEARER SETUP             | RRC RAB SETUP |
| 7    | →         |    | RADIO BEARER SETUP COMPLETE    | RRC           |
| 8    | ←         |    | ACTIVATE PDP CONTEXT ACCEPT    | SM            |

#### 7.4.2.8.2.1.4 Specific message contents

FFS

#### 7.4.2.8.2.2 Mobile originating sessions

##### 7.4.2.8.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

##### 7.4.2.8.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

##### 7.4.2.8.2.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                      | Comments      |
|------|-----------|----|------------------------------|---------------|
|      | UE        | SS |                              |               |
| 1    | →         |    | SERVICE REQUEST              | GMM           |
| 2    | ←         |    | SERVICE ACCEPT               | GMM           |
| 3    | →         |    | ACTIVATE PDP CONTEXT REQUEST | SM            |
| 4    | ←         |    | RADIO BEARER SETUP           | RRC RAB SETUP |
| 5    | →         |    | RADIO BEARER SETUP COMPLETE  | RRC           |
| 6    | ←         |    | ACTIVATE PDP CONTEXT ACCEPT  | SM            |

##### 7.4.2.8.2.2.4 Specific message contents

FFS

#### 7.4.2.8.3 Transition to PS+PS-DCCH+DTCH Idle (Procedure P27)

##### 7.4.2.8.3.1 Mobile terminating session

##### 7.4.2.8.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-16.
- The Test USIM shall be inserted.



## 7.4.2.8.3.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

## 7.4.2.8.3.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                                | Comments                                                                     |
|------|-----------|----|----------------------------------------|------------------------------------------------------------------------------|
|      | UE        | SS |                                        |                                                                              |
| 1    | ←         |    | RRC CONNECTION RELEASE (DCCH)          | N308=1<br>The UE shall enter idle state. Message is repeated 2(N308+1) times |
| 2    | →         |    | RRC CONNECTION RELEASE COMPLETE (DCCH) |                                                                              |

## 7.4.2.8.3.1.4 Specific message contents

None

## 7.4.2.9 Radio access bearer establishment procedure with circuit switched calls for transitions to Multi Call state (procedure P22, P23 and P24)

## 7.4.2.9.1 Transition to CS+CS-DCCH+DTCH DCH (procedure P22)

## 7.4.2.9.1.1 Mobile terminating call

## 7.4.2.9.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

## 7.4.2.9.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

## 7.4.2.9.1.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                     | Comments                      |
|------|-----------|----|-----------------------------|-------------------------------|
|      | UE        | SS |                             |                               |
| 1    | ←         |    | PAGING TYPE2 (DCCH)         | Paging                        |
| 2    | →         |    | PAGING RESPONSE             | RR                            |
| 3    | ←         |    | SET UP                      | CC                            |
| 4    | →         |    | CALL CONFIRMED              | CC                            |
| 5    | ←         |    | RADIO BEARER SETUP          | RRC RAB SETUP                 |
| 6    | →         |    | RADIO BEARER SETUP COMPLETE | RRC                           |
| 7    | →         |    | ALERTING                    | CC (this message is optional) |
| 8    | →         |    | CONNECT                     | CC                            |
| 9    | ←         |    | CONNECT ACKNOWLEDGE         | CC                            |

## 7.4.2.9.1.1.4 Specific message contents

FFS

## 7.4.2.9.1.2 Mobile originating calls

## 7.4.2.9.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

## 7.4.2.9.1.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

## 7.4.2.9.1.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                     | Comments      |
|------|-----------|----|-----------------------------|---------------|
|      | UE        | SS |                             |               |
| 1    | →         |    | CM SERVICE REQUEST          | MM            |
| 2    | ←         |    | CM SERVICE ACCEPT           | MM            |
| 3    | →         |    | SET UP                      | CC            |
| 4    | ←         |    | CALL PROCEEDING             | CC            |
| 5    | ←         |    | RADIO BEARER SETUP          | RRC RAB SETUP |
| 6    | →         |    | RADIO BEARER SETUP COMPLETE | RRC           |
| 7    | ←         |    | ALERTING                    | CC            |
| 8    | ←         |    | CONNECT                     | CC            |
| 9    | →         |    | CONNECT ACKNOWLEDGE         | CC            |

## 7.4.2.9.1.2.4 Specific message contents

FFS

## 7.4.2.9.2 Transition to PS+CS-DCCH+DTCH DCH (procedure P23 and 24)

## 7.4.2.9.2.1 Mobile terminating call

## 7.4.2.9.2.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall have registered in CS/PS.
- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

## 7.4.2.9.2.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

## 7.4.2.9.2.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                | Comments |
|------|-----------|----|------------------------|----------|
|      | UE        | SS |                        |          |
| 1    | ←         |    | PAGING TYPE2 (DCCH)    | Paging   |
| 2    | →         |    | PAGING RESPONSE        | RR       |
| 3    | ←         |    | AUTHENTICATION REQUEST | MM       |

| Step | Direction |    | Message                     | Comments                      |
|------|-----------|----|-----------------------------|-------------------------------|
|      | UE        | SS |                             |                               |
| 4    | →         |    | AUTHENTICATION RESPONSE     | MM                            |
| 5    | ←         |    | SECURITY MODE COMMAND       | RRC                           |
| 6    | →         |    | SECURITY MODE COMPLETE      | RRC                           |
| 7    | ←         |    | SET UP                      | CC                            |
| 8    | →         |    | CALL CONFIRMED              | CC                            |
| 9    | ←         |    | RADIO BEARER SETUP          | RRC RAB SETUP                 |
| 10   | →         |    | RADIO BEARER SETUP COMPLETE | RRC                           |
| 11   | →         |    | ALERTING                    | CC (this message is optional) |
| 12   | →         |    | CONNECT                     | CC                            |
| 13   | ←         |    | CONNECT ACKNOWLEDGE         | CC                            |

#### 7.4.2.9.2.1.4 Specific message contents

FFS

#### 7.4.2.9.2.2 Mobile originating calls

##### 7.4.2.9.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

##### 7.4.2.9.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1.

##### 7.4.2.9.2.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clauses 5.2 and 6.1.

| Step | Direction |    | Message                     | Comments      |
|------|-----------|----|-----------------------------|---------------|
|      | UE        | SS |                             |               |
| 1    | →         |    | CM SERVICE REQUEST          | MM            |
| 2    | ←         |    | AUTHENTICATION REQUEST      | MM            |
| 3    | →         |    | AUTHENTICATION RESPONSE     | MM            |
| 4    | ←         |    | SECURITY MODE COMMAND       | RRC           |
| 5    | →         |    | SECURITY MODE COMPLETE      | RRC           |
| 6    | →         |    | SET UP                      | CC            |
| 7    | ←         |    | CALL PROCEEDING             | CC            |
| 8    | ←         |    | RADIO BEARER SETUP          | RRC RAB SETUP |
| 9    | →         |    | RADIO BEARER SETUP COMPLETE | RRC           |
| 10   | ←         |    | ALERTING                    | CC            |
| 11   | ←         |    | CONNECT                     | CC            |
| 12   | →         |    | CONNECT ACKNOWLEDGE         | CC            |

#### 7.4.2.9.2.2.4 Specific message contents

FFS

## 7.5 Test procedures for A-GPS and A-GNSS Performance requirements testing

This clause specifies the procedures that shall be used for testing of A-GPS and A-GNSS Performance requirements in TS 37.571-1 [47] clauses 5 and 6.

## 7.5.1 Normal UE based A-GPS procedure

The procedure in this clause shall be used for all UE-based A-GPS TTFF test cases in CELL\_DCH and CELL\_FACH state as specified in TS 37.571-1 [47] clause 5.

### 7.5.1.1 Initial conditions

User Equipment:

The UE is in CELL\_DCH or CELL\_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].

### 7.5.1.2 Procedure

| Step | Direction |       | Message                                 | Comments                                                                              |
|------|-----------|-------|-----------------------------------------|---------------------------------------------------------------------------------------|
|      | UE        | SS    |                                         |                                                                                       |
| 1    | ←         |       | RESET UE POSITIONING STORED INFORMATION | TC                                                                                    |
| 2    | ←         |       | RRC MEASUREMENT CONTROL                 | RRC (Setup, No Reporting, Nav model Satellites 1, 2, 3, 4, 5 (1))                     |
| 3    | ←         |       | RRC MEASUREMENT CONTROL                 | RRC (Modify, No Reporting, Nav model Satellites 6, 7, 8, 9 (1), Iono Model)           |
| 4    | ←         |       | RRC MEASUREMENT CONTROL                 | RRC (Modify, Periodical Reporting Criterion, GPS Ref time (1), ReferencePosition (1)) |
| 5    | →         |       | RRC MEASUREMENT REPORT                  | RRC (Position Estimate), 1 <sup>st</sup> test instance                                |
| 6    | ←         |       | RESET UE POSITIONING STORED INFORMATION | TC                                                                                    |
| 7    | ←         |       | RRC MEASUREMENT CONTROL                 | RRC (Setup, No Reporting, Nav model Satellites 1, 2, 3, 4, 5 (2))                     |
| 8    | ←         |       | RRC MEASUREMENT CONTROL                 | RRC (Modify, No Reporting, Nav model Satellites 6, 7, 8, 9 (2), Iono Model)           |
| 9    | ←         |       | RRC MEASUREMENT CONTROL                 | RRC (Modify, Periodical Reporting Criterion, GPS Ref time (2), ReferencePosition (2)) |
| 10   | →         |       | RRC MEASUREMENT REPORT                  | RRC (Position Estimate), 2 <sup>nd</sup> test instance                                |
| 11   | ←         |       | RESET UE POSITIONING STORED INFORMATION | TC                                                                                    |
| .... | .....     | ..... | .....                                   | .....                                                                                 |
| n    | →         |       | RRC MEASUREMENT REPORT                  | RRC (Position Estimate), n <sup>th</sup> test instance                                |

### 7.5.1.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

| Information Element       | Value/remark |
|---------------------------|--------------|
| UE Positioning Technology | AGPS         |







|                                                                                                                               |   |                        |                         |
|-------------------------------------------------------------------------------------------------------------------------------|---|------------------------|-------------------------|
| n                                                                                                                             | → | RRC MEASUREMENT REPORT | RRC (Position Estimate) |
| NOTE: In the actual testing the UE may report error messages at step 5 until it has been able to acquire a position estimate. |   |                        |                         |

### 7.5.2.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

The contents of the Reset UE Positioning Stored Information message in Step 1 are the same as specified for Normal UE based A-GPS testing in clause 7.5.1.

Contents of MEASUREMENT CONTROL message: RRC

The contents of the Measurement Control message in steps 2 and 3 are the same as specified for Normal UE based A-GPS testing in clause 7.5.1.

The contents of the Measurement Control message in step 4 are the same as specified for Normal UE based A-GPS testing in clause 7.5.1 with the following exceptions:

| Information Element                                 | Value/remark        |
|-----------------------------------------------------|---------------------|
| Amount of reporting                                 | Infinite (see note) |
| Reporting interval                                  | 2 000 ms            |
| NOTE: Infinite means during the complete test time. |                     |

## 7.5.3 Void

## 7.5.4 Normal UE assisted GPS procedure

The procedure in this clause shall be used for all UE-assisted A-GPS TTFF test cases in CELL\_DCH and CELL\_FACH state as specified in TS 37.571-1 [47] clause 5.

### 7.5.4.1 Initial conditions

User Equipment:

The UE is in CELL\_DCH or CELL\_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].

### 7.5.4.2 Procedure

| Step | Direction |    | Message                                 | Comments                                                                         |
|------|-----------|----|-----------------------------------------|----------------------------------------------------------------------------------|
|      | UE        | SS |                                         |                                                                                  |
| 1    | ←         |    | RESET UE POSITIONING STORED INFORMATION | TC                                                                               |
| 2    | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Setup, Periodical Reporting Criteria, GPS Ref time)                         |
| 3    | →         |    | RRC MEASUREMENT REPORT                  | RRC (Additional Assistance Data Request)                                         |
| 4    | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, No Reporting, Assistance Data Satellites 1, 2, 3, 4, 5, 6, 7, 8, 9) |
| 5    | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, Periodical Reporting Criteria)                                      |
| 6    | →         |    | RRC MEASUREMENT REPORT                  | RRC (GPS Measured Results), 1 <sup>st</sup> test instance                        |
| 7    | ←         |    | RESET UE POSITIONING STORED INFORMATION | TC                                                                               |
| 8    | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Setup, Periodical Reporting Criteria, GPS Ref time)                         |
| 9    | →         |    | RRC MEASUREMENT REPORT                  | RRC (Additional Assistance Data Request)                                         |
| 10   | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, No Reporting, Assistance Data Satellites 1, 2, 3, 4, 5, 6, 7, 8, 9) |
| 11   | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, Periodical Reporting Criteria)                                      |
| 12   | →         |    | RRC MEASUREMENT REPORT                  | RRC (GPS Measured Results), 2 <sup>nd</sup> test instance                        |



| Step | Direction |       | Message                                 | Comments                                                  |
|------|-----------|-------|-----------------------------------------|-----------------------------------------------------------|
|      | UE        | SS    |                                         |                                                           |
| 13   | ←         |       | RESET UE POSITIONING STORED INFORMATION | TC                                                        |
| .... |           | ..... | .....                                   |                                                           |
| n    | →         |       | RRC MEASUREMENT REPORT                  | RRC (GPS Measured Results), n <sup>th</sup> test instance |

### 7.5.4.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

| Information Element       | Value/remark |
|---------------------------|--------------|
| UE Positioning Technology | AGPS         |

Contents of MEASUREMENT CONTROL messages: RRC

MEASUREMENT CONTROL (Steps 2 + (n-1)\*6):

| Information element                                   | Value/remark                                   | Version |
|-------------------------------------------------------|------------------------------------------------|---------|
| <b>Measurement Information Elements</b>               |                                                |         |
| Measurement Identity                                  | 10                                             |         |
| Measurement Command                                   | Setup                                          |         |
| Measurement Reporting Mode                            |                                                |         |
| - Measurement report transfer mode                    | Acknowledged mode RLC                          |         |
| - Periodical reporting / Event trigger reporting mode | Periodical reporting                           |         |
| Additional Measurements List                          | Not present                                    |         |
| CHOICE <i>Measurement type</i>                        | UE positioning measurement                     |         |
| - UE positioning measurement                          |                                                |         |
| - UE positioning reporting quantity                   |                                                |         |
| - Method type                                         | UE assisted                                    |         |
| - Positioning methods                                 | GPS                                            |         |
| - Response time                                       | 128                                            |         |
| - Horizontal accuracy                                 | 19 (51 m)                                      |         |
| - Vertical accuracy                                   | 48 (102 m)                                     |         |
| - GPS timing of cell wanted                           | FALSE                                          |         |
| - Multiple sets                                       | FALSE                                          |         |
| - Additional assistance data request                  | TRUE                                           |         |
| - Environmental characterization                      | Not present                                    |         |
| - Measurement validity                                |                                                |         |
| - UE state                                            | All states                                     |         |
| - CHOICE <i>Reporting criteria</i>                    | Periodical Reporting Criteria                  |         |
| - Amount of reporting                                 | 1                                              |         |
| - Reporting Interval                                  | 20000                                          |         |
| - UE pos OTDOA assistance data for UE-assisted        | Not present                                    |         |
| - UE pos OTDOA assistance data for UE-based           | Not present                                    |         |
| - UE positioning GPS assistance data                  |                                                |         |
| - UE positioning GPS reference time                   | As specified in TS 37.571-5 [48]<br>clause 5.2 |         |
| <b>Physical Channel Information Elements</b>          |                                                |         |
| DPCH compressed mode status info                      | Not present                                    |         |

## MEASUREMENT REPORT (Steps 3 + (n-1)\*6):

| Information element                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Value/remark                                                                                                            | Version |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Measurement Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                         |         |
| Measurement Identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10                                                                                                                      |         |
| Measured Results <ul style="list-style-type: none"> <li>- CHOICE <i>Measurement</i> <ul style="list-style-type: none"> <li>- UE positioning measured results</li> <li>- UE positioning OTDOA measured results</li> <li>- UE positioning position estimate info</li> <li>- UE positioning GPS measured results</li> <li>- UE positioning error <ul style="list-style-type: none"> <li>- Error reason</li> <li>- GPS additional assistance data request</li> </ul> </li> </ul> </li> </ul> | Not present<br>Not present<br>Not present<br><br>Assistance Data Missing<br>Defines assistance data requested by the UE |         |
| Measured Results on RACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Not present                                                                                                             |         |
| Additional Measured Results                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not present                                                                                                             |         |
| Event Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Not present                                                                                                             |         |

## MEASUREMENT CONTROL (Steps 4 + (n-1)\*6):

| Information element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Value/remark                                                                                                                                                                                                                                                                        | Version                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>Measurement Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                     |                          |
| Measurement Identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10                                                                                                                                                                                                                                                                                  |                          |
| Measurement Command                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Modify                                                                                                                                                                                                                                                                              |                          |
| Measurement Reporting Mode <ul style="list-style-type: none"> <li>- Measurement report transfer mode</li> <li>- Periodical reporting / Event trigger reporting mode</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Acknowledged mode RLC<br>Periodical reporting                                                                                                                                                                                                                                       |                          |
| Additional Measurements List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Not present                                                                                                                                                                                                                                                                         |                          |
| CHOICE <i>Measurement type</i> <ul style="list-style-type: none"> <li>- UE positioning measurement <ul style="list-style-type: none"> <li>- UE positioning reporting quantity <ul style="list-style-type: none"> <li>- Method type</li> <li>- Positioning methods</li> <li>- Response time</li> <li>- Horizontal accuracy</li> <li>- Vertical accuracy</li> <li>- GPS timing of cell wanted</li> <li>- Multiple sets</li> <li>- Additional assistance data request</li> <li>- Environmental characterization</li> </ul> </li> <li>- Measurement validity <ul style="list-style-type: none"> <li>- UE state</li> </ul> </li> <li>- CHOICE <i>Reporting criteria</i> <ul style="list-style-type: none"> <li>- No reporting</li> </ul> </li> <li>- UE pos OTDOA assistance data for UE-assisted</li> <li>- UE pos OTDOA assistance data for UE-based</li> <li>- UE positioning GPS assistance data</li> </ul> </li> </ul> | UE positioning measurement<br><br>UE assisted<br>GPS<br>128<br>19 (51 m)<br>48 (102 m)<br>FALSE<br>FALSE<br>FALSE<br>Not present<br><br>All states<br><br>Not present<br>Not present<br>As specified in TS 37.571-5 [48]<br>clause 5.2 and requested by the UE<br>in Step 3+(n-1)*6 | R99 only<br><br>R99 only |
| <b>Physical Channel Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                     |                          |
| DPCH compressed mode status info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Not present                                                                                                                                                                                                                                                                         |                          |



### 7.5.5.2 Procedure

| Step                                                                                                                           | Direction |    | Message                                 | Comments                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------|-----------|----|-----------------------------------------|----------------------------------------------------------------------------------|
|                                                                                                                                | UE        | SS |                                         |                                                                                  |
| 1                                                                                                                              | ←         |    | RESET UE POSITIONING STORED INFORMATION | TC                                                                               |
| 2                                                                                                                              | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Setup, Periodical Reporting Criteria, GPS Ref time)                         |
| 3                                                                                                                              | →         |    | RRC MEASUREMENT REPORT                  | RRC (Additional Assistance Data Request)                                         |
| 4                                                                                                                              | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, No Reporting, Assistance Data Satellites 1, 2, 3, 4, 5, 6, 7, 8, 9) |
| 5                                                                                                                              | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, Periodical Reporting Criteria)                                      |
| 6                                                                                                                              | →         |    | RRC MEASUREMENT REPORT                  | RRC (GPS Measured Results), 1 <sup>st</sup> test instance                        |
| 7                                                                                                                              | →         |    | RRC MEASUREMENT REPORT                  | RRC (GPS Measured Results), 2 <sup>nd</sup> test instance                        |
| .....                                                                                                                          | →         |    | .....                                   |                                                                                  |
| n                                                                                                                              | →         |    | RRC MEASUREMENT REPORT                  | RRC (GPS Measured Results), n <sup>th</sup> test instance                        |
| NOTE: In the actual testing the UE may report error messages at step 6 until it has been able to acquire GPS measured results. |           |    |                                         |                                                                                  |

### 7.5.5.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

The contents of the Reset UE Positioning Stored Information message in Step 1 are the same as specified for Normal UE assisted A-GPS testing in clause 7.5.4.

Contents of MEASUREMENT CONTROL message: RRC

The contents of the Measurement Control message in steps 2 and 4 are the same as specified for Normal UE assisted A-GPS testing in clause 7.5.4.

The contents of the Measurement Control message in step 5 are the same as specified for Normal UE assisted A-GPS testing in clause 7.5.4 with the following exceptions:

| Information Element                                 | Value/remark        |
|-----------------------------------------------------|---------------------|
| Amount of reporting                                 | Infinite (see note) |
| Reporting interval                                  | 2 000 ms            |
| NOTE: Infinite means during the complete test time. |                     |

## 7.5.6 Normal UE based A-GNSS procedure

The procedure in this clause shall be used for all UE-based A-GNSS TTFF test cases in CELL\_DCH and CELL\_FACH state as specified in TS 37.571-1 [47] clause 6.

### 7.5.6.1 Initial conditions

User Equipment:

The UE is in CELL\_DCH or CELL\_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].

## 7.5.6.2 Procedure

| Step  | Direction |    | Message                                 | Comments                                                                                                                                                         |
|-------|-----------|----|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | UE        | SS |                                         |                                                                                                                                                                  |
| 1     | ←         |    | RESET UE POSITIONING STORED INFORMATION | TC                                                                                                                                                               |
| 2     | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Setup, No Reporting, Nav model GPS Satellites 1, 2, 3, 4, 5 (1), Nav model GANSS Satellites 1, 2, 3, 4, 5 (1), Aux Info GANSS Satellites 1, 2, 3, 4, 5 (1)) |
| 3     | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, No Reporting, Nav model GPS Satellites 6, 7, 8, 9 (1), Iono Model, Nav model GANSS Satellites 6,7,8 (1), Aux Info GANSS Satellites 6,7,8 (1))       |
| 4     | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, Periodical Reporting Criterion, GPS Ref time (1), GPS Ref location (1), GPS UTC Model(1), GANSS Time Model (1))                                     |
| 5     | →         |    | RRC MEASUREMENT REPORT                  | RRC (Position Estimate), 1 <sup>st</sup> test Instance                                                                                                           |
| 6     | ←         |    | RESET UE POSITIONING STORED INFORMATION | TC                                                                                                                                                               |
| 7     | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Setup, No Reporting, Nav model GPS Satellites 1, 2, 3, 4, 5 (2), Nav model GANSS Satellites 1, 2, 3, 4, 5 (2), Aux Info GANSS Satellites 1, 2, 3, 4, 5 (2)) |
| 8     | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, No Reporting, Nav model GPS Satellites 6, 7, 8, 9 (2), Iono Model, Nav model GANSS Satellites 6,7,8 (2), Aux Info GANSS Satellites 6,7,8 (2))       |
| 9     | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, Periodical Reporting Criterion, GPS Ref time (1), GPS Ref location (2), GPS UTC Model(1), GANSS Time Model (2))                                     |
| 10    | →         |    | RRC MEASUREMENT REPORT                  | RRC (Position Estimate), 2 <sup>nd</sup> test Instance                                                                                                           |
| 11    | ←         |    | RESET UE POSITIONING STORED INFORMATION | TC                                                                                                                                                               |
| ..... | →         |    | .....                                   |                                                                                                                                                                  |
| n     | →         |    | RRC MEASUREMENT REPORT                  | RRC (Position Estimate), n <sup>th</sup> test Instance                                                                                                           |

## 7.5.6.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

| Information Element       | Value/remark |
|---------------------------|--------------|
| UE Positioning Technology | AGNSS        |

Contents of MEASUREMENT CONTROL messages: RRC

MEASUREMENT CONTROL (Steps 2 + (n-1)\*5):

| Information element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                        | Version |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Measurement Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| Measurement Identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| Measurement Command                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Setup                                                                                                                                                                                                                                                                                                                                                                                                               |         |
| Measurement Reporting Mode <ul style="list-style-type: none"> <li>- Measurement report transfer mode</li> <li>- Periodical reporting / Event trigger reporting mode</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Acknowledged mode RLC<br>Periodical reporting                                                                                                                                                                                                                                                                                                                                                                       |         |
| Additional Measurements List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Not present                                                                                                                                                                                                                                                                                                                                                                                                         |         |
| CHOICE <i>Measurement type</i> <ul style="list-style-type: none"> <li>- UE positioning measurement <ul style="list-style-type: none"> <li>- UE positioning reporting quantity <ul style="list-style-type: none"> <li>- Method type</li> <li>- Positioning methods</li> <li>- Horizontal accuracy</li> <li>- Vertical accuracy</li> <li>- GPS timing of cell wanted</li> <li>- Additional assistance data request</li> <li>- Environmental characterization</li> <li>- GANSSPositioningMethods</li> </ul> </li> <li>- Measurement validity <ul style="list-style-type: none"> <li>- UE state</li> </ul> </li> </ul> </li> <li>- CHOICE <i>Reporting criteria</i> <ul style="list-style-type: none"> <li>- No reporting</li> </ul> </li> <li>- UE pos OTDOA assistance data for UE-assisted</li> <li>- UE pos OTDOA assistance data for UE-based</li> <li>- UE positioning GPS assistance data <ul style="list-style-type: none"> <li>- UE positioning GPS navigation model</li> </ul> </li> <li>- UE positioning GANSS assistance data <ul style="list-style-type: none"> <li>-GanssGenericDataList</li> <li>- UE positioning GANSS add navigation models</li> </ul> </li> <li>- UE positioning GANSS AuxiliaryInfo</li> </ul> | UE positioning measurement<br><br>UE based<br>GPS<br>19 (51 m)<br>48 (102 m)<br>FALSE<br>FALSE<br>Not present<br>Bitmap as per supported GNSS<br><br>All states<br><br>Not present<br>Not present<br><br>GPS Satellites 1-5 as specified in TS 37.571-5 [48] clause 6.2<br><br>GANSS Satellites 1-5 as specified in TS 37.571-5 [48] clause 6.2<br>GANSS Satellites 1-5 as specified in TS 37.571-5 [48] clause 6.2 |         |
| <b>Physical Channel Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
| DPCH compressed mode status info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not present                                                                                                                                                                                                                                                                                                                                                                                                         |         |

MEASUREMENT CONTROL (Steps 3 + (n-1)\*5):

| Information element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Version |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Measurement Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| Measurement Identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |
| Measurement Command                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Modify                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| Measurement Reporting Mode <ul style="list-style-type: none"> <li>- Measurement report transfer mode</li> <li>- Periodical reporting / Event trigger reporting mode</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Acknowledged mode RLC<br>Periodical reporting                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
| Additional Measurements List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| CHOICE <i>Measurement type</i> <ul style="list-style-type: none"> <li>- UE positioning measurement <ul style="list-style-type: none"> <li>- UE positioning reporting quantity <ul style="list-style-type: none"> <li>- Method type</li> <li>- Positioning methods</li> <li>- Horizontal accuracy</li> <li>- Vertical accuracy</li> <li>- GPS timing of cell wanted</li> <li>- Additional assistance data request</li> <li>- Environmental characterization</li> <li>- GANSSPositioningMethods</li> </ul> </li> <li>- Measurement validity <ul style="list-style-type: none"> <li>- UE state</li> </ul> </li> <li>- CHOICE <i>Reporting criteria</i> <ul style="list-style-type: none"> <li>- No reporting</li> </ul> </li> <li>- UE pos OTDOA assistance data for UE-assisted</li> <li>- UE pos OTDOA assistance data for UE-based</li> <li>- UE positioning GPS assistance data <ul style="list-style-type: none"> <li>- UE positioning GPS navigation model</li> </ul> </li> <li>- UE positioning GPS ionospheric model</li> <li>- UE positioning GANSS assistance data <ul style="list-style-type: none"> <li>-GanssGenericDataList</li> <li>- UE positioning GANSS add navigation models</li> </ul> </li> <li>- UE positioning GANSS AuxiliaryInfo</li> </ul> </li> </ul> | UE positioning measurement<br><br>UE based<br>GPS<br>19 (51 m)<br>48 (102 m)<br>FALSE<br>FALSE<br>Not present<br>Bitmap as per supported GNSS<br><br>All states<br><br>Not present<br>Not present<br><br>GPS Satellites 6-9 as specified in TS 37.571-5 [48] clause 6.2<br>As specified in TS 37.571-5 [48] clause 6.2<br><br>GANSS Satellites 6-8 as specified in TS 37.571-5 [48] clause 6.2<br>GANSS Satellites 6-8 as specified in TS 37.571-5 [48] clause 6.2 |         |
| <b>Physical Channel Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| DPCH compressed mode status info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |

MEASUREMENT CONTROL (Steps 4 + (n-1)\*5):

| Information element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                 | Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Measurement Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| Measurement Identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| Measurement Command                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Modify                                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| Measurement Reporting Mode <ul style="list-style-type: none"> <li>- Measurement report transfer mode</li> <li>- Periodical reporting / Event trigger reporting mode</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Acknowledged mode RLC<br>Periodical reporting                                                                                                                                                                                                                                                                                                                                                                                |         |
| Additional Measurements List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Not present                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| CHOICE <i>Measurement type</i> <ul style="list-style-type: none"> <li>- UE positioning measurement <ul style="list-style-type: none"> <li>- UE positioning reporting quantity <ul style="list-style-type: none"> <li>- Method type</li> <li>- Positioning methods</li> <li>- Horizontal accuracy</li> <li>- Vertical accuracy</li> <li>- GPS timing of cell wanted</li> <li>- Additional assistance data request</li> <li>- Environmental characterization</li> </ul> </li> <li>- Measurement validity <ul style="list-style-type: none"> <li>- UE state</li> </ul> </li> <li>- CHOICE <i>Reporting criteria</i> <ul style="list-style-type: none"> <li>- Amount of reporting</li> <li>- Reporting Interval</li> </ul> </li> <li>- UE pos OTDOA assistance data for UE-assisted</li> <li>- UE pos OTDOA assistance data for UE-based</li> <li>- UE positioning GPS assistance data <ul style="list-style-type: none"> <li>- UE positioning GPS reference time</li> </ul> </li> <li>- UE positioning GPS reference UE position</li> <li>- UE positioning GPS UTC model</li> <li>- UE positioning GANSS assistance data <ul style="list-style-type: none"> <li>-GanssGenericDataList</li> <li>- GANSS Time model list</li> </ul> </li> </ul> </li> </ul> | UE positioning measurement<br><br>UE based<br>GPS<br>19 (51 m)<br>48 (102 m)<br>FALSE<br>FALSE<br>Not present<br><br>All states<br>Periodical Reporting Criteria<br>1<br>20000<br>Not present<br>Not present<br><br>As specified in TS 37.571-5 [48]<br>clause 6.2<br>As specified in TS 37.571-5 [48]<br>clause 6.2<br>As specified in TS 37.571-5 [48]<br>clause 6.2<br><br>As specified in TS 37.571-5 [48]<br>clause 6.2 |         |
| <b>Physical Channel Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| DPCH compressed mode status info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Not present                                                                                                                                                                                                                                                                                                                                                                                                                  |         |

## 7.5.7 UE based A-GNSS procedure for moving scenario and periodic update test case

The procedure in this clause shall be used for the UE-based A-GNSS moving scenario and periodic update test case in CELL\_DCH and CELL\_FACH state as specified in TS 37.571-1 [47] clause 6.

### 7.5.7.1 Initial conditions

User Equipment:

The UE is in CELL\_DCH or CELL\_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].



### 7.5.7.2 Procedure

| Step                                                                                                                           | Direction |    | Message                                 | Comments                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------|-----------|----|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                | UE        | SS |                                         |                                                                                                                                                      |
| 1                                                                                                                              | ←         |    | RESET UE POSITIONING STORED INFORMATION | TC                                                                                                                                                   |
| 2                                                                                                                              | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Setup, No Reporting, Nav model GPS Satellites 1, 2, 3, 4, 5, Nav model GANSS Satellites 1, 2, 3, 4, 5, Aux Info GANSS Satellites 1, 2, 3, 4, 5) |
| 3                                                                                                                              | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, No Reporting, Nav model GPS Satellites 6, 7, 8, 9, Iono Model, Nav model GANSS Satellites 6,7,8, Aux Info GANSS Satellites 6,7,8)       |
| 4                                                                                                                              | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, Periodical Reporting Criterion, GPS Ref time, GPS Ref location, GPS UTC Model, GANSS Time Model)                                        |
| 5                                                                                                                              | →         |    | RRC MEASUREMENT REPORT                  | RRC (Position Estimate)                                                                                                                              |
| 6                                                                                                                              | →         |    | RRC MEASUREMENT REPORT                  | RRC (Position Estimate)                                                                                                                              |
| .....                                                                                                                          | →         |    | .....                                   |                                                                                                                                                      |
| n                                                                                                                              | →         |    | RRC MEASUREMENT REPORT                  | RRC (Position Estimate)                                                                                                                              |
| NOTE: In the actual testing the UE may report error messages at step 5 until it has been able to acquire GPS measured results. |           |    |                                         |                                                                                                                                                      |

### 7.5.7.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

The contents of the Reset UE Positioning Stored Information message in Step 1 are the same as specified for Normal UE based A-GNSS testing in clause 7.5.6.

Contents of MEASUREMENT CONTROL message: RRC

The contents of the Measurement Control message in steps 2 and 3 are the same as specified for Normal UE based A-GNSS testing in clause 7.5.6.

The contents of the Measurement Control message in step 4 are the same as specified for Normal UE based A-GNSS testing in clause 7.5.6 with the following exceptions:

| Information Element                                 | Value/remark        |
|-----------------------------------------------------|---------------------|
| Amount of reporting                                 | Infinite (see note) |
| Reporting interval                                  | 2 000 ms            |
| NOTE: Infinite means during the complete test time. |                     |

## 7.5.8 Normal UE assisted A-GNSS procedure

The procedure in this clause shall be used for all UE-assisted A-GNSS TTFF test cases in CELL\_DCH and CELL\_FACH state as specified in TS 37.571-1 [47] clause 6.

### 7.5.8.1 Initial conditions

User Equipment:

The UE is in CELL\_DCH or CELL\_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].

## 7.5.8.2 Procedure

| Step  | Direction |    | Message                                 | Comments                                                                                                                                                           |
|-------|-----------|----|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | UE        | SS |                                         |                                                                                                                                                                    |
| 1     | ←         |    | RESET UE POSITIONING STORED INFORMATION | TC                                                                                                                                                                 |
| 2     | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Setup, Periodical Reporting criteria, GPS Ref time, GPS UTC Model, GANSS Time Model)                                                                          |
| 3     | →         |    | RRC MEASUREMENT REPORT                  | RRC (Additional Assistance Data Request)                                                                                                                           |
| 4     | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, No Reporting, Assistance Data GPS Satellites 1, 2, 3, 4, 5, 6, 7, 8, 9)                                                                               |
| 5     | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Setup, Periodical Reporting criteria, Reference Measurement Info GANSS Satellites 1, 2, 3, 4, 5, 6, 7, 8<br>Aux Info GANSS Satellites 1, 2, 3, 4, 5, 6, 7, 8) |
| 6     | →         |    | RRC MEASUREMENT REPORT                  | RRC (GNSS Measured Results), 1 <sup>st</sup> test Instance                                                                                                         |
| 7     | ←         |    | RESET UE POSITIONING STORED INFORMATION | TC                                                                                                                                                                 |
| 8     | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Setup, Periodical Reporting criteria, GPS Ref time, GPS UTC Model, GANSS Time Model)                                                                          |
| 9     | →         |    | RRC MEASUREMENT REPORT                  | RRC (Additional Assistance Data Request)                                                                                                                           |
| 10    | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, No Reporting, Assistance Data GPS Satellites 1, 2, 3, 4, 5, 6, 7, 8, 9)                                                                               |
| 11    | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Setup, Periodical Reporting criteria, Reference Measurement Info GANSS Satellites 1, 2, 3, 4, 5, 6, 7, 8<br>Aux Info GANSS Satellites 1, 2, 3, 4, 5, 6, 7, 8) |
| 12    | →         |    | RRC MEASUREMENT REPORT                  | RRC (GNSS Measured Results), 2 <sup>nd</sup> test Instance                                                                                                         |
| 13    | ←         |    | RESET UE POSITIONING STORED INFORMATION | TC                                                                                                                                                                 |
| ..... | →         |    | .....                                   |                                                                                                                                                                    |
| n     | →         |    | RRC MEASUREMENT REPORT                  | RRC (GNSS Measured Results), n <sup>th</sup> test Instance                                                                                                         |

## 7.5.8.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

| Information Element       | Value/remark |
|---------------------------|--------------|
| UE Positioning Technology | AGNSS        |

Contents of MEASUREMENT CONTROL messages: RRC

MEASUREMENT CONTROL (Steps 2 + (n-1)\*6):

| Information element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                 | Version |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Measurement Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| Measurement Identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| Measurement Command                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Setup                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| Measurement Reporting Mode <ul style="list-style-type: none"> <li>- Measurement report transfer mode</li> <li>- Periodical reporting / Event trigger reporting mode</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Acknowledged mode RLC<br>Periodical reporting                                                                                                                                                                                                                                                                                                                                                                |         |
| Additional Measurements List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not present                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| CHOICE <i>Measurement type</i> <ul style="list-style-type: none"> <li>- UE positioning measurement <ul style="list-style-type: none"> <li>- UE positioning reporting quantity <ul style="list-style-type: none"> <li>- Method type</li> <li>- Positioning methods</li> <li>- Horizontal accuracy</li> <li>- Vertical accuracy</li> <li>- GPS timing of cell wanted</li> <li>- Additional assistance data request</li> <li>- Environmental characterization</li> <li>- GANSSPositioningMethods</li> </ul> </li> <li>- Measurement validity <ul style="list-style-type: none"> <li>- UE state</li> </ul> </li> <li>- CHOICE <i>Reporting criteria</i> <ul style="list-style-type: none"> <li>- Amount of reporting</li> <li>- Reporting Interval</li> </ul> </li> <li>- UE pos OTDOA assistance data for UE-assisted</li> <li>- UE pos OTDOA assistance data for UE-based</li> <li>- UE positioning GPS assistance data <ul style="list-style-type: none"> <li>- UE positioning GPS reference time</li> </ul> </li> <li>- UE positioning GPS UTC model</li> <li>- UE positioning GANSS assistance data</li> <li>-GanssGenericDataList</li> <li>- GANSS Time model list</li> </ul> </li> </ul> | UE positioning measurement<br><br>UE assisted<br>GPS<br>19 (51 m)<br>48 (102 m)<br>FALSE<br>TRUE<br>Not present<br>Bitmap as per supported GNSS<br><br>All states<br>Periodical Reporting Criteria<br>1<br>20000<br>Not present<br>Not present<br><br>As specified in TS 37.571-5 [48]<br>clause 6.2<br>As specified in TS 37.571-5 [48]<br>clause 6.2<br><br>As specified in TS 37.571-5 [48]<br>clause 6.2 |         |
| <b>Physical Channel Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| DPCH compressed mode status info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Not present                                                                                                                                                                                                                                                                                                                                                                                                  |         |

MEASUREMENT REPORT (Steps 3 + (n-1)\*6):

| Information element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Value/remark                                                                                                               | Version |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Measurement Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                            |         |
| Measurement Identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10                                                                                                                         |         |
| Measured Results <ul style="list-style-type: none"> <li>- CHOICE <i>Measurement</i> <ul style="list-style-type: none"> <li>- UE positioning measured results <ul style="list-style-type: none"> <li>- UE positioning OTDOA measured results</li> <li>- UE positioning position estimate info</li> <li>- UE positioning GPS measured results</li> <li>- UE positioning error <ul style="list-style-type: none"> <li>- Error reason</li> </ul> </li> <li>- GPS additional assistance data request</li> </ul> </li> </ul> </li> </ul> | Not present<br>Not present<br>Not present<br><br>Assistance Data Missing<br>Defines assistance data requested<br>by the UE |         |
| Measured Results on RACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Not present                                                                                                                |         |
| Additional Measured Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not present                                                                                                                |         |
| Event Results                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Not present                                                                                                                |         |

MEASUREMENT CONTROL (Steps 4 + (n-1)\*6):

| Information element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Value/remark                                                                                                                                                                                                                                                                                        | Version |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Measurement Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                     |         |
| Measurement Identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10                                                                                                                                                                                                                                                                                                  |         |
| Measurement Command                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Modify                                                                                                                                                                                                                                                                                              |         |
| Measurement Reporting Mode <ul style="list-style-type: none"> <li>- Measurement report transfer mode</li> <li>- Periodical reporting / Event trigger reporting mode</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Acknowledged mode RLC<br>Periodical reporting                                                                                                                                                                                                                                                       |         |
| Additional Measurements List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Not present                                                                                                                                                                                                                                                                                         |         |
| CHOICE <i>Measurement type</i> <ul style="list-style-type: none"> <li>- UE positioning measurement <ul style="list-style-type: none"> <li>- UE positioning reporting quantity <ul style="list-style-type: none"> <li>- Method type</li> <li>- Positioning methods</li> <li>- Horizontal accuracy</li> <li>- Vertical accuracy</li> <li>- GPS timing of cell wanted</li> <li>- Additional assistance data request</li> <li>- Environmental characterization</li> <li>- GANSSPositioningMethods</li> </ul> </li> <li>- Measurement validity <ul style="list-style-type: none"> <li>- UE state</li> </ul> </li> <li>- CHOICE <i>Reporting criteria</i> <ul style="list-style-type: none"> <li>- No reporting</li> </ul> </li> <li>- UE pos OTDOA assistance data for UE-assisted</li> <li>- UE pos OTDOA assistance data for UE-based</li> <li>- UE positioning GPS assistance data</li> </ul> </li> </ul> | UE positioning measurement<br><br>UE assisted<br>GPS<br>19 (51 m)<br>48 (102 m)<br>FALSE<br>FALSE<br>Not present<br><br>Bitmap as per supported GNSS<br>All states<br><br>Not present<br>Not present<br>As specified in TS 37.571-5 [48]<br>clause 6.2 and requested by the UE<br>in Step 3+(n-1)*6 |         |
| <b>Physical Channel Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                     |         |
| DPCH compressed mode status info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not present                                                                                                                                                                                                                                                                                         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                     |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                     |         |

MEASUREMENT CONTROL (Steps 5 + (n-1)\*6):

| Information element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Value/remark                                                                                                                                                                                                                                                                                                                                            | Version |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Measurement Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                         |         |
| Measurement Identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10                                                                                                                                                                                                                                                                                                                                                      |         |
| Measurement Command                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Modify                                                                                                                                                                                                                                                                                                                                                  |         |
| Measurement Reporting Mode <ul style="list-style-type: none"> <li>- Measurement report transfer mode</li> <li>- Periodical reporting / Event trigger reporting mode</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Acknowledged mode RLC<br>Periodical reporting                                                                                                                                                                                                                                                                                                           |         |
| Additional Measurements List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Not present                                                                                                                                                                                                                                                                                                                                             |         |
| CHOICE <i>Measurement type</i> <ul style="list-style-type: none"> <li>- UE positioning measurement <ul style="list-style-type: none"> <li>- UE positioning reporting quantity <ul style="list-style-type: none"> <li>- Method type</li> <li>- Positioning methods</li> <li>- Horizontal accuracy</li> <li>- Vertical accuracy</li> <li>- GPS timing of cell wanted</li> <li>- Additional assistance data request</li> <li>- Environmental characterization</li> <li>- GANSSPositioningMethods</li> </ul> </li> <li>- Measurement validity <ul style="list-style-type: none"> <li>- UE state</li> </ul> </li> <li>- CHOICE <i>Reporting criteria</i> <ul style="list-style-type: none"> <li>- Amount of reporting</li> <li>- Reporting Interval</li> </ul> </li> <li>- UE pos OTDOA assistance data for UE-assisted</li> <li>- UE pos OTDOA assistance data for UE-based</li> <li>- UE positioning GANSS assistance data</li> <li>-GanssGenericDataList <ul style="list-style-type: none"> <li>- GANSS Time model list</li> <li>- UE positioning GANSS reference position info</li> </ul> </li> <li>- UE positioning GANSS AuxiliaryInfo</li> </ul> </li> </ul> | UE positioning measurement<br><br>UE assisted<br>GPS<br>19 (51 m)<br>48 (102 m)<br>FALSE<br>FALSE<br>Not present<br>Bitmap as per supported GNSS<br><br>All states<br>Periodical Reporting Criteria<br>1<br>20000<br>Not present<br>Not present<br><br>As specified in TS 37.571-5 [48]<br>clause 6.2<br>As specified in TS 37.571-5 [48]<br>clause 6.2 |         |
| <b>Physical Channel Information Elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                         |         |
| DPCH compressed mode status info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Not present                                                                                                                                                                                                                                                                                                                                             |         |

## 7.5.9 UE assisted A-GNSS procedure for moving scenario and periodic update test case

The procedure in this clause shall be used for the UE-assisted A-GNSS moving scenario and periodic update test case in CELL\_DCH and CELL\_FACH state as specified in TS 37.571-1 [47] clause 6.

### 7.5.9.1 Initial conditions

User Equipment:

The UE is in CELL\_DCH or CELL\_FACH state after executing the procedure defined in clause F.2 of TS 37.571-1 [47].

### 7.5.9.2 Procedure

| Step                                                                                                                           | Direction |    | Message                                 | Comments                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------|-----------|----|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                | UE        | SS |                                         |                                                                                                                                                                    |
| 1                                                                                                                              | ←         |    | RESET UE POSITIONING STORED INFORMATION | TC                                                                                                                                                                 |
| 2                                                                                                                              | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Setup, Periodical Reporting criteria, GPS Ref time, GPS UTC Model, GANSS Time Model)                                                                          |
| 3                                                                                                                              | →         |    | RRC MEASUREMENT CONTROL                 | RRC (Additional Assistance Data Request)                                                                                                                           |
| 4                                                                                                                              | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Modify, No Reporting, Assistance Data GPS Satellites 1, 2, 3, 4, 5, 6, 7, 8, 9)                                                                               |
| 5                                                                                                                              | ←         |    | RRC MEASUREMENT CONTROL                 | RRC (Setup, Periodical Reporting criteria, Reference Measurement Info GANSS Satellites 1, 2, 3, 4, 5, 6, 7, 8<br>Aux Info GANSS Satellites 1, 2, 3, 4, 5, 6, 7, 8) |
| 6                                                                                                                              | →         |    | RRC MEASUREMENT REPORT                  | RRC (GNSS Measured Results), 1 <sup>st</sup> test Instance                                                                                                         |
| 7                                                                                                                              | →         |    | RRC MEASUREMENT REPORT                  | RRC (GNSS Measured Results), 2 <sup>nd</sup> test Instance                                                                                                         |
| ...                                                                                                                            | →         |    | ...                                     |                                                                                                                                                                    |
| n                                                                                                                              | →         |    | RRC MEASUREMENT REPORT                  | RRC (GNSS Measured Results), n <sup>th</sup> test Instance                                                                                                         |
| NOTE: In the actual testing the UE may report error messages at step 6 until it has been able to acquire GPS measured results. |           |    |                                         |                                                                                                                                                                    |

### 7.5.9.3 Specific message contents

Contents of RESET UE POSITIONING STORED INFORMATION message: TC

The contents of the Reset UE Positioning Stored Information message in Step 1 are the same as specified for Normal UE assisted A-GNSS testing in clause 7.5.8.

Contents of MEASUREMENT CONTROL message: RRC

The contents of the Measurement Control message in steps 2 and 4 are the same as specified for Normal UE assisted A-GNSS testing in clause 7.5.8.

The contents of the Measurement Control message in step 5 are the same as specified for Normal UE assisted A-GNSS testing in clause 7.5.8 with the following exceptions:

| Information Element                                 | Value/remark        |
|-----------------------------------------------------|---------------------|
| Amount of reporting                                 | Infinite (see note) |
| Reporting interval                                  | 2 000 ms            |
| NOTE: Infinite means during the complete test time. |                     |

## 7.6 Test procedures for MBMS testing

This clause specifies the procedures that shall be used for MBMS testing.

### 7.6.1 GMM-REGISTERED with 1 MBMS Service Activated

#### 7.6.1.1 Initial conditions

User Equipment:

For MBMS broadcast test cases:

- The UE is in registered Idle Mode on PS state (state 3) if the UE only supports PS domain or registered Idle Mode on CS/PS (state 7) if the UE supports both CS and PS domain. The UE states are specified in clause 7.4. For MBMS multicast test cases:

- The UE is in CELL\_DCH (6-10 PS-DCCH+DTCH\_DCH) or CELL\_FACH (6-11 PS-DCCH+DTCH\_FACH) state after executing the procedure P13 or P14 defined in clause 7.4.2.6.

For MBMS broadcast and multicast test cases:

- Subsequent to the broadcasting of System Information, MCCH messages are transmitted by the SS using MBMS configuration C1 and Default1 MCCH scheduling (No ongoing service). See subclause 11.1.
- For MBMS the RRC messages used throughout the generic setup procedures make use of specific parameter settings as specified in clause 9.1.

### 7.6.1.2 Procedure

For MBMS broadcast test cases:

- The SS request the UE to activate the requested MBMS broadcast service.
- The SS waits until the MBMS broadcast service has been activated in the UE
- The SS change UE state to CELL\_DCH (6-10 PS-DCCH+DTCH\_DCH) or CELL\_FACH (6-11 PS-DCCH+DTCH\_FACH) state by executing the procedure P13 or P14 defined in clause 7.4.2.6 except for the reception of MBMS MODIFICATION REQUEST message after RRC CONNECTION SETUP COMPLETE message during P5 or P6 procedure in case of MBMS Selected Service.

Specific Message Content for MBMS MODIFICATION REQUEST:

#### MBMS MODIFICATION REQUEST

| Information Element                   | Value/remark                                                                                                                       |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| MBMS preferred frequency request      | Check that the IE is not present                                                                                                   |
| MBMS RB list requested to be released | Check that the IE is not present                                                                                                   |
| MBMS Selected Service Info            |                                                                                                                                    |
| - CHOICE Status                       | Some                                                                                                                               |
| - MBMS Selected Services Full         |                                                                                                                                    |
| - MBMS Selected Service ID            |                                                                                                                                    |
| - MBMS Service ID                     | MBMS service ID of the activated MBMS service                                                                                      |
| - CHOICE PLMN identity                | Check to see that one of the below choice element is present (no data)                                                             |
| - SameAs-MIB                          | Check to see if it is set to the same value as "PLMN ID" in the Master Information block transmitted for the current serving cell. |
| - explicitPLMN_Id                     |                                                                                                                                    |

For MBMS multicast test cases:

| Step | Direction |    | Message                               | Comments                         |
|------|-----------|----|---------------------------------------|----------------------------------|
|      | UE        | SS |                                       |                                  |
| 1    |           |    |                                       | Make UE join a multicast service |
| 2    | →         |    | IGMP/MLD JOIN                         | IGMP/MLD                         |
| 3    | ←         |    | REQUEST MBMS CONTEXT ACTIVATION       | SM                               |
| 4    | →         |    | ACTIVATE MBMS CONTEXT REQUEST         | SM                               |
| 5    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                              |
| 6    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                              |
| 7    | ←         |    | ACTIVATE MBMS CONTEXT ACCEPT          | SM                               |

If required, transition from CELL\_FACH (6-11) to CELL\_PCH (6-12) or URA\_PCH (6-13) state using the procedures P15 or P17 respectively will be performed.

### 7.6.1.3 Specific message contents

All specific message contents shall be referred to clause 9 with the following exceptions:

## PHYSICAL CHANNEL RECONFIGURATION (procedures 6-12 and 6-13)

| Information Element                | Value/remark |
|------------------------------------|--------------|
| UTRAN DRX cycle length coefficient | 7            |

Attach Accept message: GMM

| Information Element   | Value/remark   |
|-----------------------|----------------|
| NetworkFeatureSupport | MBMS supported |

Service Request message: GMM

| Information Element | Value/remark           |
|---------------------|------------------------|
| ServiceType         | MBMS Service Reception |

## REQUEST MBMS CONTEXT ACTIVATION

| Information Element                 | Value/remark |
|-------------------------------------|--------------|
| Linked NSAPI                        | 5            |
| Offered Multicast address           | Present      |
| Access point name                   | Present      |
| MBMS protocol configuration options | Not present  |

## ACTIVATE MBMS CONTEXT REQUEST

| Information Element                 | Value/remark |
|-------------------------------------|--------------|
| Requested MBMS NSAPI                | 128          |
| Requested LLC SAPI                  | Present      |
| Supported MBMS bearer capabilities  | Present      |
| Requested Multicast address         | Present      |
| Access point name                   | Present      |
| MBMS protocol configuration options | Not present  |

## ACTIVATE MBMS CONTEXT ACCEPT

| Information Element                 | Value/remark |
|-------------------------------------|--------------|
| Temporary Mobile Group Identity     |              |
| - MBMS Service Id                   | Present      |
| - MCC                               | Present      |
| - MNC                               | Present      |
| Negotiated LLC SAPI                 | Present      |
| MBMS protocol configuration options | Not present  |

## IPv4\_Datagram

| Information Element | Value/remark                                  |
|---------------------|-----------------------------------------------|
| Version             | 0x4                                           |
| HeaderLength        | Present                                       |
| TypeOfService       | Present                                       |
| TotalLength         | Present                                       |
| Identification      | Present                                       |
| ReservedFlag        | Present                                       |
| MoreFragments       | Present                                       |
| FragmentationOffset | Present                                       |
| TimeToLive          | Present                                       |
| Protocol            | Present                                       |
| HeaderChecksum      | Present                                       |
| SourceAddress       | Present                                       |
| DestinationAddress  | Present                                       |
| OptionsList         | Router alert option with value 0 (0x94040000) |



|      |          |
|------|----------|
| Data | IGMP PDU |
|------|----------|

## IGMP/JOIN (IPv4)

| Information Element | Value/remark                       |
|---------------------|------------------------------------|
| Type                | 0x16 (Version 2 Membership Report) |
| Max Resp Time       | Present                            |
| Checksum            | Present                            |
| Group Address       | Multicast IP address               |

## IGMP/Leave (IPv4)

| Information Element | Value/remark                       |
|---------------------|------------------------------------|
| Type                | 0x17 (Version 2 Membership Report) |
| Max Resp Time       | Present                            |
| Checksum            | Present                            |
| Group Address       | Multicast IP address               |

## IPv6\_Datagram

| Information Element | Value/remark                                  |
|---------------------|-----------------------------------------------|
| Version             | 0x6                                           |
| TrafficClass        | Present                                       |
| FlowLabel           | Present                                       |
| PayloadLength       | Present                                       |
| NextHeader          | Present                                       |
| HopLimit            | Present                                       |
| SourceAddress       | Present                                       |
| DestinationAddress  | Present                                       |
| ExtensionHeaders    | Router alert option with value 0 (0x05020000) |
| Data                | MLD PDU                                       |

## MLD/JOIN (IPv6)

| Information Element  | Value/remark         |
|----------------------|----------------------|
| Type                 | 0x83                 |
| Code                 | Present              |
| Checksum             | Present              |
| MaximumResponseDelay | Present              |
| Reserved             | Present              |
| Group Address        | Multicast IP address |

## MLD/LEAVE (IPv6)

| Information Element  | Value/remark         |
|----------------------|----------------------|
| Type                 | 0x84                 |
| Code                 | Present              |
| Checksum             | Present              |
| MaximumResponseDelay | Present              |
| Reserved             | Present              |
| Group Address        | Multicast IP address |

## 7.6.2 IDLE with 1 MBMS Service Activated

## 7.6.2.1 Initial conditions

User Equipment:

For MBMS broadcast test cases:

- The UE is in registered Idle Mode on PS state (state 3) if the UE only supports PS domain or registered Idle Mode on CS/PS (state 7) if the UE supports both CS and PS domain. The UE states are specified in clause 7.4.

For MBMS multicast test cases:

- The UE is in CELL\_FACH ( 6-11 PS-DCCH+DTCH\_FACH) state after executing the procedure P14 defined in clause 7.4.2.6.

For MBMS broadcast and multicast test cases:

- Subsequent to the broadcasting of System Information, MCCH messages are transmitted by the SS using MBMS configuration C1 (No ongoing service) and Default1 MCCH scheduling. See subclause 11.1.
- For MBMS the RRC messages used throughout the generic setup procedures make use of specific parameter settings as specified in clause 9.1.

### 7.6.2.2 Procedure

For MBMS broadcast test cases:

- The SS request the UE to active the requested MBMS broadcast service.
- The SS waits until the MBMS broadcast service has been activated in the UE

For MBMS multicast test cases:

| Step | Direction |    | Message                               | Comments                         |
|------|-----------|----|---------------------------------------|----------------------------------|
|      | UE        | SS |                                       |                                  |
| 1    |           |    |                                       | Make UE join a multicast service |
| 2    | →         |    | IGMP/MLD JOIN                         | IGMP/MLD                         |
| 3    | ←         |    | REQUEST MBMS CONTEXT ACTIVATION       | SM                               |
| 4    | →         |    | ACTIVATE MBMS CONTEXT REQUEST         | SM                               |
| 5    | ←         |    | AUTHENTICATION AND CIPHERING REQUEST  | GMM                              |
| 6    | →         |    | AUTHENTICATION AND CIPHERING RESPONSE | GMM                              |
| 7    | ←         |    | ACTIVATE MBMS CONTEXT ACCEPT          | SM                               |
| 8    | ←         |    | RRC CONNECTION RELEASE                | RRC                              |
| 9    | →         |    | RRC CONNECTION RELEASE COMPLETE       | RRC                              |

### 7.6.2.3 Specific message contents

All specific message contents shall be referred to clause 9 with the following exceptions:

Attach Accept message: GMM

| Information Element   | Value/remark   |
|-----------------------|----------------|
| NetworkFeatureSupport | MBMS supported |

Service Request message: GMM

| Information Element | Value/remark           |
|---------------------|------------------------|
| ServiceType         | MBMS Service Reception |

REQUEST MBMS CONTEXT ACTIVATION

| Information Element                 | Value/remark |
|-------------------------------------|--------------|
| Linked NSAPI                        | 5            |
| Offered Multicast address           | Present      |
| Access point name                   | Present      |
| MBMS protocol configuration options | Not present  |

## ACTIVATE MBMS CONTEXT REQUEST

| Information Element                 | Value/remark |
|-------------------------------------|--------------|
| Requested MBMS NSAPI                | 128          |
| Requested LLC SAPI                  | Present      |
| Supported MBMS bearer capabilities  | Present      |
| Requested Multicast address         | Present      |
| Access point name                   | Present      |
| MBMS protocol configuration options | Not present  |

## ACTIVATE MBMS CONTEXT ACCEPT

| Information Element                 | Value/remark |
|-------------------------------------|--------------|
| Temporary Mobile Group Identity     |              |
| - MBMS Service Id                   | Present      |
| - MCC                               | Present      |
| - MNC                               | Present      |
| Negotiated LLC SAPI                 | Present      |
| MBMS protocol configuration options | Not present  |

## IPv4\_Datagram

| Information Element | Value/remark                                  |
|---------------------|-----------------------------------------------|
| Version             | 0x4                                           |
| HeaderLength        | Present                                       |
| TypeOfService       | Present                                       |
| TotalLength         | Present                                       |
| Identification      | Present                                       |
| ReservedFlag        | Present                                       |
| MoreFragments       | Present                                       |
| FragmentationOffset | Present                                       |
| TimeToLive          | Present                                       |
| Protocol            | Present                                       |
| HeaderChecksum      | Present                                       |
| SourceAddress       | Present                                       |
| DestinationAddress  | Present                                       |
| OptionsList         | Router alert option with value 0 (0x94040000) |
| Data                | IGMP PDU                                      |

## IGMP/JOIN (IPv4)

| Information Element | Value/remark                       |
|---------------------|------------------------------------|
| Type                | 0x16 (Version 2 Membership Report) |
| Max Resp Time       | Present                            |
| Checksum            | Present                            |
| Group Address       | Multicast IP address               |

## IGMP/Leave (IPv4)

| Information Element | Value/remark                       |
|---------------------|------------------------------------|
| Type                | 0x17 (Version 2 Membership Report) |
| Max Resp Time       | Present                            |
| Checksum            | Present                            |
| Group Address       | Multicast IP address               |

## IPv6\_Datagram

| Information Element | Value/remark |
|---------------------|--------------|
| Version             | 0x6          |
| TrafficClass        | Present      |
| FlowLabel           | Present      |

|                    |                                               |
|--------------------|-----------------------------------------------|
| PayloadLength      | Present                                       |
| NextHeader         | Present                                       |
| HopLimit           | Present                                       |
| SourceAddress      | Present                                       |
| DestinationAddress | Present                                       |
| ExtensionHeaders   | Router alert option with value 0 (0x05020000) |
| Data               | MLD PDU                                       |

## MLD/JOIN (IPv6)

| Information Element  | Value/remark         |
|----------------------|----------------------|
| Type                 | 0x83                 |
| Code                 | Present              |
| Checksum             | Present              |
| MaximumResponseDelay | Present              |
| Reserved             | Present              |
| Group Address        | Multicast IP address |

## MLD/LEAVE (IPv6)

| Information Element  | Value/remark         |
|----------------------|----------------------|
| Type                 | 0x84                 |
| Code                 | Present              |
| Checksum             | Present              |
| MaximumResponseDelay | Present              |
| Reserved             | Present              |
| Group Address        | Multicast IP address |

## 7.6.3 MBSFN IDLE

### 7.6.3.1 Initial conditions

System Simulator:

- 1 MBMS MBSFN Cell 31 with default parameters.

In addition to broadcasting System Information, MCCH messages are transmitted by the SS using MBMS configuration C1 and Default1 MCCH scheduling (No ongoing service). See subclause 11.1.

- 1 unicast carrier Cell 1 with default parameters.

User Equipment:

- The UE is in MBSFN Idle mode with one service activated on the MBSFN cell as specified in subclause 7.6.4.
- On the unicast carrier cell the UE is in registered Idle Mode on PS (state 3) if the UE only supports PS domain or registered Idle Mode on CS/PS (state 7) if the UE supports both CS and PS domains. See subclause 7.6.4. The UE states are specified in subclause 7.4.

### 7.6.3.2 Procedure

- The SS requests the UE to de-activate the requested MBMS broadcast service.
- The SS waits until the MBMS broadcast service has been de-activated in the UE

Expected Sequence:

| Step | Direction |    | Carrier | Message                            | Comment                                                                    |
|------|-----------|----|---------|------------------------------------|----------------------------------------------------------------------------|
|      | UE        | SS |         |                                    |                                                                            |
| 1    | ←         |    | M       | SYSTEM INFORMATION (BCCH)          |                                                                            |
| 2    | ←         |    | M       | MBMS MCCH Message Configuration C1 | MBMS configuration C1 and Default1 MCCH scheduling. No session ongoing.    |
| 3    |           | SS |         |                                    | SS requests the UE to de-activate the required MBMS broadcast service      |
| 4    |           | SS |         |                                    | SS waits until the MBMS broadcast service has been de-activated in the UE. |

### 7.6.3.3 Specific message contents

All message contents shall be as specified in clause 9.1.

## 7.6.4 MBSFN IDLE with 1 MBMS Service Activated

### 7.6.4.1 Initial conditions

System Simulator:

- 1 MBMS MBSFN Cell 31 with default parameters.

In addition to broadcasting System Information, MCCH messages are transmitted by the SS using MBMS configuration C2 and Default1 MCCH scheduling (No modified services. One ongoing service corresponding to that to be activated at the UE. 124 kbps PS RAB). See subclause 11.1.

- 1 unicast carrier Cell 1 with default parameters.

User Equipment:

- The UE is switched off.
- The Test-USIM shall be inserted.
- The UE shall be operated under normal test conditions.

### 7.6.4.2 Procedure

- The UE shall be switched on and the unicast carrier mobile termination shall be activated.
- The UE registers on the unicast carrier Cell 1. The UE registers on PS, as specified in clause 7.2.2.2 of TS 34.108 (state 3) if the UE only supports PS domain or registers on CS/PS, as specified in clause 7.2.2.3 of TS 34.108. (state 7) if the UE supports both CS and PS domains.
- The SS sends ACTIVATE RB TEST MODE on the unicast carrier cell. The UE acknowledges by sending ACTIVATE RB TEST MODE COMPLETE.
- The MBMS MBSFN mobile termination shall be activated. (See Note 1)
- The SS sends CLOSE UE TEST LOOP via the unicast carrier cell, requesting activation of Test Loop Mode 3 specifying the MBSFN MBMS short transmission identity of the MTCH for the activated service (on Cell 31).
- The SS requests the UE to activate the requested MBMS broadcast service.
- The UE performs an MBSFN cell search, reads System Information and camps on Cell 31.
- The UE reads the MCCH messages transmitted by the SS in accordance with Combination C2 and with Default1 MCCH information scheduling. See subclause 11.1. The UE shall continue acquiring the above MBMS messages until it has received a consistent set of MCCH information in the same modification period.

- i) The UE shall establish the p-t-m radio bearer for the ongoing activated MBMS service indicated in the MBMS UNMODIFIED SERVICES INFORMATION message according to the configuration defined in the MBMS CURRENT CELL P-T-M INFORMATION (one ongoing session corresponding to the service activated at the UE. The UE closes the test loop and starts counting successfully received RLC PDUs on the MTCH. The UE will send CLOST UE TEST LOOP COMPLETE.
- j) The Test Loop is opened and RB Test Mode is deactivated.

Expected Sequence:

| Step | Direction |    | Carrier | Message                            | Comment                                                                                                                                             |
|------|-----------|----|---------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|      | UE        | SS |         |                                    |                                                                                                                                                     |
| 1    | UE        |    | U       |                                    | UE switched on and unicast carrier mobile termination is activated.                                                                                 |
| 2    |           |    | U       |                                    | UE registers on Unicast carrier Cell 1.                                                                                                             |
| 3    | ←         |    | U       | ACTIVATE RB TEST MODE              |                                                                                                                                                     |
| 4    | →         |    | U       | ACTIVATE RB TEST MODE COMPLETE     |                                                                                                                                                     |
| 5    | UE        |    |         |                                    | MBMS MBSFN mobile termination is activated. UE starts MBSFN cell search. Note 1.                                                                    |
| 6    | ←         |    | U       | CLOSE UE TEST LOOP                 | Loop back mode 3 on MTCH on Cell 31 is requested.                                                                                                   |
| 7    |           | SS |         |                                    | SS requests the UE to activate the required MBMS broadcast service                                                                                  |
| 8    | ←         |    | M       | SYSTEM INFORMATION (BCCH)          |                                                                                                                                                     |
| 9    | ←         |    | M       | MBMS MCCH Message Configuration C2 | No modified services. One ongoing service corresponding to that activated at the UE. 124 kbps PS RAB                                                |
| 10   | UE        |    | M       |                                    | The UE shall continue acquiring the above MBMS messages until it has received a consistent set of MCCH information in the same modification period. |
| 11   | →         |    | M       | CLOSE UE TEST LOOP COMPLETE        | The UE shall establish the indicated p-t-m radio bearer and close the test loop.                                                                    |
| 12   | ←         |    | U       | OPEN UE TEST LOOP                  |                                                                                                                                                     |
| 13   | →         |    | U       | OPEN UE TEST LOOP COMPLETE         |                                                                                                                                                     |
| 14   | ←         |    | U       | DEACTIVATE RB TEST MODE            |                                                                                                                                                     |
| 15   | →         |    | U       | DEACTIVATE RB TEST MODE COMPLETE   |                                                                                                                                                     |

Note 1: If possible, activation of the MBMS Mobile Termination shall be delayed until registration on the unicast carrier is complete.

### 7.6.4.3 Specific message contents

All message contents shall be as specified in clause 9.1.

## 8 Test USIM Parameters

### 8.1 Introduction

This clause defines default parameters for programming the elementary files of the test USIM. The requirements of this clause do not apply to the USIM/ME tests of 3GPP TS 31.120 [39] and 3GPP TS 31.121 [40].

#### 8.1.1 Definitions

"Test USIM card":

A USIM card supporting the test algorithm for authentication, programmed with the parameters defined in this clause. The electrical, mechanical and environmental requirements of the test USIM card are specified in 3GPP TS 31.101 [22] and 3GPP TS 31.102 [23].

"Test USIM":

Either a test USIM card or the USIM simulator programmed with the parameters defined in this clause.

## 8.1.2 Definition of the test algorithm for authentication

In order to be able to easily test the UMTS authentication and key agreement procedure as specified in 3GPP TS 33.102 [24] and 3GPP TS 33.105 [26] along the whole system, the availability of a test algorithm for generation of authentication vector based on quintets is needed (in GSM triplets was used). Additionally, calculation of the parameters for re-synchronization requests is needed. The definition of the test algorithm are the functions  $f_1$ ,  $f_2$ ,  $f_3$ ,  $f_4$ ,  $f_5$  and the corresponding functions for re-synchronization are  $f_1^*$  and  $f_5^*$ .

For test USIM intended to be used for inter-RAT or GERAN-only test cases then the test USIM shall support the conversion functions  $c_2$  and  $c_3$  according to 3GPP TS 33.102 [24], clause 6.8.1.2 to derive the GSM SRES and ciphering key  $K_c$  from the UMTS XRES and cipher/integrity keys  $CK$  and  $IK$ .

The test algorithm defined in the present clause shall be implemented in test USIM cards as well in test USIM simulators and SS. The test algorithm may also, for test purposes, be implemented in AUC.

The following procedure employs bit wise modulo 2 addition ("XOR").

The following convention applies:

All data variables in the specification of this test algorithm are presented with the most significant substring on the left hand side and the least significant substring on the right hand side. A substring may be a bit, byte or other arbitrary length bitstring. Where a variable is broken down into a number of substrings, the leftmost (most significant) substring is numbered 0, the next most significant is numbered 1, and so on through to the least significant.

### 8.1.2.1 Authentication and key derivation in the test USIM and SS

The following steps describe sequence of operations for the functions  $f_1$ ,  $f_2$ ,  $f_3$ ,  $f_4$  and  $f_5$  to perform in the test USIM and SS, in order to obtain the XMAC/MAC, RES/XRES,  $CK$ ,  $IK$ ,  $K_c$  and  $AK$  respectively, to be used in the authentication and key agreement procedure.

Step 1:

XOR to the challenge **RAND**, a predefined number **K** (in which at least one bit is not zero, see clause 8.2), having the same bit length (128 bits) as **RAND**.

The result **XDOUT** of this is:

$$\mathbf{XDOUT}[\text{bits } 0,1, \dots 126,127] = \mathbf{K} [\text{bits } 0,1, \dots 126,127] \text{ XOR } \mathbf{RAND}[\text{bits } 0,1, \dots 126,127]$$

Step 2:

**RES** (test USIM), **XRES** (SS), **CK**, **IK** and **AK** are extracted from **XDOUT** this way:

$$\mathbf{RES}[\text{bits } 0,1, \dots n-1,n] = \mathbf{f_2}(\mathbf{XDOUT},n) = \mathbf{XDOUT}[\text{bits } 0,1, \dots n-1,n] \quad (\text{with } 30 < n < 128)$$

NOTE: Suggested length for RES is 128 bits (i.e.  $n = 127$ ).  
In SS and AUC, the XRES calculation is identical to RES.

$$\mathbf{CK}[\text{bits } 0,1, \dots 126,127] = \mathbf{f_3}(\mathbf{XDOUT}) = \mathbf{XDOUT}[\text{bits } 8,9, \dots 126,127,0,1, \dots 6,7]$$

$$\mathbf{IK}[\text{bits } 0,1, \dots 126,127] = \mathbf{f_4}(\mathbf{XDOUT}) = \mathbf{XDOUT}[\text{bits } 16,17, \dots 126,127,0,1, \dots 14,15]$$

$$\mathbf{AK}[\text{bits } 0,1, \dots 46,47] = \mathbf{f_5}(\mathbf{XDOUT}) = \mathbf{XDOUT}[\text{bits } 24,25, \dots 70,71]$$

For test USIM intended for inter-RAT testing the GSM ciphering key  $K_c$  shall be derived from the UMTS cipher/integrity keys:

$$\mathbf{Kc}[\text{bits } 0,1, \dots 62,63] = \mathbf{c_3}(\mathbf{CK},\mathbf{IK}), \text{ see 3GPP TS 33.102 [24], clause 6.8.1.2.}$$

Step 3:

Concatenate **SQN** with **AMF** to obtain **CDOUT** like this:

$$\mathbf{CDOUT}[\text{bits } 0,1, \dots 62,63] = \mathbf{SQN}[\text{bits } 0,1, \dots 46,47] \parallel \mathbf{AMF}[\text{bits } 0,1, \dots 14,15]$$

NOTE: For test USIM the  $\mathbf{SQN} = \mathbf{SQN}_{\text{MS}} = \mathbf{SQN}_{\text{SS}}[\text{bits } 0,1, \dots 46,47] = \mathbf{AUTN}[\text{bits } 0,1, \dots 46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1, \dots 46,47]$  where AUTN is the received authentication token.

Step 4:

**XMAC** (test USIM) and **MAC** (SS) are calculated from **XDOUT** and **CDOUT** this way:

$$\mathbf{XMAC}[\text{bits } 0,1, \dots 62, 63] = \mathbf{f1}(\mathbf{XDOUT}, \mathbf{CDOUT}) = \mathbf{XDOUT}[\text{bits } 0,1, \dots 62,63] \text{ XOR } \mathbf{CDOUT}[\text{bits } 0,1, \dots 62,63]$$

NOTE: In SS and AUC, the MAC calculation is identical to XMAC.

Step 5:

The SS calculates the authentication token **AUTN**:

$$\mathbf{AUTN}[\text{bits } 0,1, \dots 126,127] = \mathbf{SQN} \oplus \mathbf{AK}[\text{bits } 0,1, \dots 46,47] \parallel \mathbf{AMF}[\text{bits } 0,1, \dots 14,15] \parallel \mathbf{MAC}[\text{bits } 0,1, \dots 62, 63]$$

$$\text{Where } \mathbf{SQN} \oplus \mathbf{AK}[\text{bits } 0,1, \dots 46,47] = \mathbf{SQN}[\text{bits } 0,1, \dots 46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1, \dots 46,47]$$

### 8.1.2.2 Generation of re-synchronization parameters in the USIM

For SS to be able to initiate an authentication re-synchronization procedure a specific AMF value has been defined.

$$\mathbf{AMF}_{\text{RESYNCH}} = \mathbf{AMF}[\text{bits } 0,1, \dots 14,15] = "1111 \ 1111 \ 1111 \ 1111"$$

When the test USIM receives an authentication token (AUTN) having the value of AMF field equal to the  $\mathbf{AMF}_{\text{RESYNCH}}$  value then the test USIM shall initiate the re-synchronization procedure.

When the test USIM starts the re-synchronization procedure, the MAC-S and AK have to be calculated using the functions  $\mathbf{f1}^*$  and  $\mathbf{f5}^*$ , which in the test algorithm are identical to  $\mathbf{f1}$  and  $\mathbf{f5}$ , respectively.

Step 1:

XOR to the challenge **RAND**, a predefined number **K** (in which at least one bit is not zero, see 8.2), having the same bit length (128 bits) as **RAND**.

The result **XDOUT** of this is:

$$\mathbf{XDOUT}[\text{bits } 0,1, \dots 126,127] = \mathbf{K}[\text{bits } 0,1, \dots 126,127] \text{ XOR } \mathbf{RAND}[\text{bits } 0,1, \dots 126,127]$$

Step 2:

**AK** is extracted from **XDOUT** this way:

$$\mathbf{AK}[\text{bits } 0,1, \dots 46,47] = \mathbf{f5}^*(\mathbf{XDOUT}) = \mathbf{XDOUT}[\text{bits } 24,25, \dots 70,71]$$

Step 3:

Concatenate  $\mathbf{SQN}_{\text{MS}}$  with  $\mathbf{AMF}^*$  to obtain **CDOUT** like this:

$$\mathbf{CDOUT}[\text{bits } 0,1, \dots 62,63] = \mathbf{SQN}_{\text{MS}}[\text{bits } 0,1, \dots 46,47] \parallel \mathbf{AMF}^*[\text{bits } 0,1, \dots 14,15]$$

Where  $\mathbf{AMF}^*$  assumes a dummy value of all zeros.

NOTE 1: For test USIM the  $\mathbf{SQN}_{\text{MS}} = \mathbf{SQN}_{\text{SS}}[\text{bits } 0,1, \dots 46,47] = \mathbf{AUTN}[\text{bits } 0,1, \dots 46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1, \dots 46,47]$  where AUTN is the received authentication token.

NOTE 2: For SS and AUC the  $\mathbf{SQN}_{\text{MS}} = \mathbf{AUTS}[\text{bits } 0,1, \dots 46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1, \dots 46,47]$  where AUTS is the received re-synchronization parameter.

Step 4:

**MAC-S** is calculated from **XDOUT** and **CDOUT** this way:



$\text{MAC-S}[\text{bits } 0,1, \dots 62, 63] = \mathbf{f1}*(\mathbf{XDOUT}, \mathbf{CDOUT}) = \mathbf{XDOUT}[\text{bits } 0,1, \dots 62,63] \text{ XOR } \mathbf{CDOUT}[\text{bits } 0,1, \dots 62,63]$

NOTE: In SS and AUC, the XMAC-S calculation is identical to MAC-S.

Step 5:

The test USIM calculates the re-synchronization parameter **AUTS**:

$\text{AUTS}[\text{bits } 0,1,\dots 110,111] = \text{SQN}_{\text{MS}} \oplus \text{AK}[\text{bits } 0,1,\dots 46,47] \parallel \text{MAC-S}[\text{bits } 0,1, \dots 62, 63]$

Where  $\text{SQN}_{\text{MS}} \oplus \text{AK}[\text{bits } 0,1,\dots 46,47] = \text{SQN}_{\text{MS}}[\text{bits } 0,1,\dots 46,47] \text{ XOR } \text{AK}[\text{bits } 0,1, \dots 46,47]$

### 8.1.2.3 Using the authentication test algorithm for UE conformance testing

#### 8.1.2.3.1 Authentication accept case

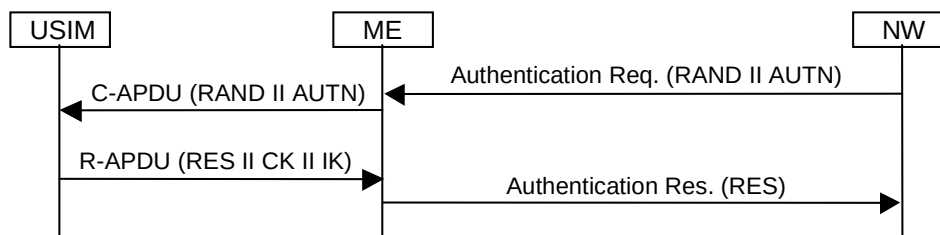
The authentication accept case is illustrated in figures 8.1.2.3.1 and 8.1.2.3.2.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to step 5) using an AMF value different from the  $\text{AMF}_{\text{RESYNCH}}$  value.

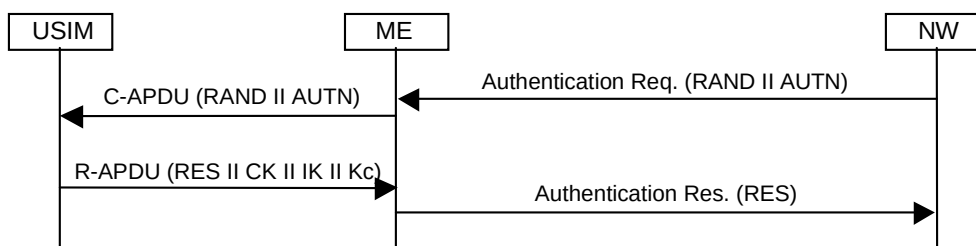
The SS sends an authentication request, including RAND and AUTN parameters, to the ME/USIM.

Based on the received RAND parameter the test USIM calculates the RES, CK, IK, Kc and XMAC parameters according to clause 8.1.2.1 (step 1 to step 4). The test USIM extracts the  $\text{SQN}_{\text{MS}} = \text{SQN}_{\text{SS}}$ , AMF and MAC parameters from the received authentication token AUTN.

The test USIM checks that XMAC = MAC and then return the RES, CK and IK parameters to the ME.



**Figure 8.1.2.3.1: Network accepted by UE (USIM not supporting derivation of GSM cipher key Kc)**



**Figure 8.1.2.3.2: Network accepted by UE (USIM supporting derivation of GSM cipher key Kc)**

#### 8.1.2.3.2 MAC failure case

The MAC failure case is illustrated in figure 8.1.2.3.2.

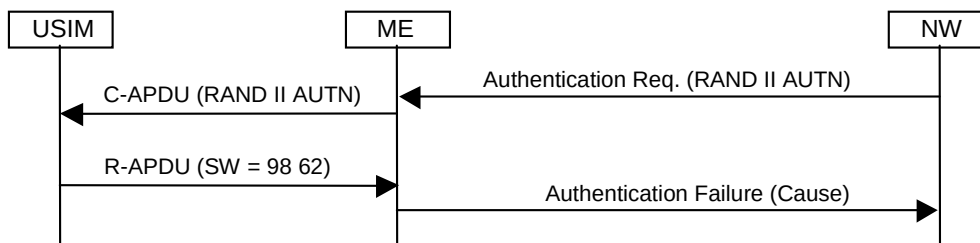
The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to step 5) using an AMF value different from the  $\text{AMF}_{\text{RESYNCH}}$  value and a MAC value different from what is calculated in clause 8.1.2.1 step 4.

The SS sends an authentication request, including RAND and AUTN parameters, to the ME/USIM.

Based on the received RAND parameter The test USIM calculates the RES, CK, IK, Kc and XMAC parameters according to clause 8.1.2.1 (step 1 to step 4).

The test USIM extracts the  $SQN_{MS} = SQN_{SS}$ , AMF and MAC parameters from the received authentication token AUTN.

When the test USIM identifies that the calculated XMAC value is different from the MAC value received in AUTN then the USIM notifies the ME of the MAC failure and the ME sends an AUTHENTICATION FAILURE message to the SS (cause "MAC failure").



**Figure 8.1.2.3.2: MAC failure cases**

#### 8.1.2.3.3 SQN failure case

The SQN failure case is illustrated in figure 8.1.2.3.3.

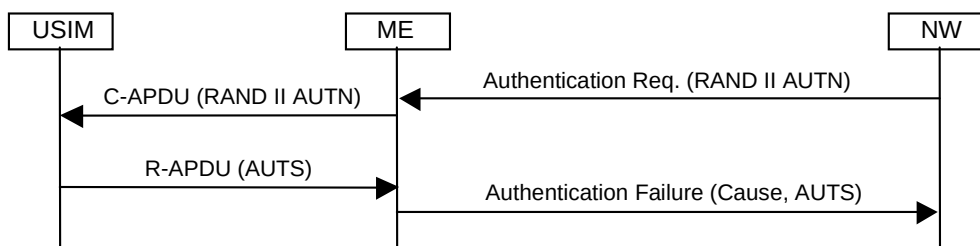
The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to step 5) using an AMF value equal to  $AMF_{RESYNCH}$ .

The SS sends an authentication request, including RAND and AUTN parameters, to the UE/USIM.

The test USIM extracts the  $SQN_{MS} = SQN_{SS}$ , AMF and MAC parameters from the received authentication token AUTN.

When the test USIM identifies that the AMF field is equal to the  $AMF_{RESYNCH}$  value it calculates the re-synchronization parameter AUTS as specified in clause 8.1.2.2 (step 1 to step 5) and forward it to the ME.

The ME sends an AUTHENTICATION FAILURE message to the SS including the AUTS parameter.



**Figure 8.1.2.3.3: SQN failure case**

### 8.1.3 Definition of the test algorithm for VGCS/VBS VSTK generation

In order to be able to easily test the VGCS/VBS key generation and encryption as specified in TS 43.020 [44] and TS 31.102 [23] along the whole system, the availability of a test algorithm for generation of the VSTK-key is needed.

The test algorithm defined in the present clause shall be implemented in test USIM cards as well in test USIM simulators and SS.

The following procedure employs bit wise modulo 2 addition ("XOR").

The following convention applies:

All data variables in the specification of this test algorithm are presented with the most significant substring on the left hand side and the least significant substring on the right hand side. A substring may be a bit, byte or other arbitrary

length bitstring. Where a variable is broken down into a number of substrings, the leftmost (most significant) substring is numbered 0, the next most significant is numbered 1, and so on through to the least significant.

### 8.1.3.1 VSTK generation in the test USIM and SS

The following steps describe the sequence of operations for the function  $A8\_V$  (TS 43.020 [44]) to be performed in the test USIM and SS, in order to obtain the VSTK, to be used in the subsequent ME/BSS key derivation steps for VGCS/VBS ciphering.

Step 1:

Expand the 36-bit value **VSTK RAND** to an intermediate 40-bit value **EXPAND**:

**FILLER**[bits 0,..7] = "11111111"

**EXPAND** [bits 0,1, . . .39] = **FILLER**[bits 0,..3] || **VSTK RAND**[bits 0,1, . . .35]

Expand the 40-bit value **EXPAND** to a 128-bit value **EXP RAND**:

**EXP RAND**[bits 0,1, . . .126,127] = **EXPAND**[bits 0,1, . . .39] || **EXPAND**[bits 0,1, . . .39] || **EXPAND**[bits 0,1, . . .39] || **FILLER**[bits 0,..7]

Step 2:

XOR the expanded 128 bit **EXP RAND** with a stored **V\_Ki** i.e. a 128 bit Voice Group or Broadcast Group Key (128 bit) number taken by the USIM from an internal table indexed by VK\_Id and Group\_Id

The result **VSTK** of this is:

**VSTK**[bits 0,1, . . .126,127]= **V\_Ki** [bits 0,1, . . .126,127] XOR **EXP RAND**[bits 0,1, . . .126,127]

## 8.2 Default Parameters for the test USIM

K:

|                 |                    |
|-----------------|--------------------|
| Size:           | 16 Bytes           |
| Default values: | Bytes 1 (HEX): 00  |
|                 | Bytes 2 (HEX): 01  |
|                 | Bytes 3 (HEX): 02  |
|                 | Bytes 4 (HEX): 03  |
|                 | Bytes 5 (HEX): 04  |
|                 | Bytes 6 (HEX): 05  |
|                 | Bytes 7 (HEX): 06  |
|                 | Bytes 8 (HEX): 07  |
|                 | Bytes 9 (HEX): 08  |
|                 | Bytes 10 (HEX): 09 |
|                 | Bytes 11 (HEX): 0A |
|                 | Bytes 12 (HEX): 0B |
|                 | Bytes 13 (HEX): 0C |
|                 | Bytes 14 (HEX): 0D |

Bytes 15 (HEX): 0E

Bytes 16 (HEX): 0F

PIN Disabling:

The PIN enabled / disabled flag will be set to "PIN Disabled". This ensures that when the Test USIM is inserted into a UE the user will not be prompted for PIN entry.

## 8.3 Default settings for the Elementary Files (EFs)

The format and coding of elementary files of the USIM are defined in 3GPP TS 31.101 [22] and 3GPP TS 31.102 [23]. The following clauses define the default parameters to be programmed into each elementary file. Some files may be updated by the UE based on information received from the SS. These are identified in the following clauses.

If EFs have an unassigned value, it may not be clear from the main text what this value should be. This clause suggests values in these cases.

### 8.3.1 Contents of the EFs at the MF level

#### 8.3.1.1 EF<sub>DIR</sub>

#### 8.3.1.2 EF<sub>ICCID</sub> (ICC Identity)

The programming of this EF is a test house option.

#### 8.3.1.3 EF<sub>PL</sub> (Preferred Languages)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.1.4 EF<sub>ARR</sub> (Access rule reference)

The programming of this EF is a test house option.

### 8.3.2 Contents of files at the USIM ADF (Application DF) level

#### 8.3.2.1 EF<sub>LI</sub> (Language Indication)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.2.2 EF<sub>IMSI</sub> (IMSI)

The IMSI value will be chosen by the test house. The IMSI used by the SS will align this value.

File size: 9 bytes

Default values: Byte 1 (DEC): 8

Bytes 2 to 9 (HEX): 09 10 10 \*\* \*\* \*\* \*\*

49 24 10 \*\* \*\* \*\* \* (for Band VI and Band IX)

"\*" indicates any number between 0 and 9 subject to the restriction that IMSI mod 1000 (i.e. bytes 7, 8 and 9) lies in one of the following ranges:

- 063 to 125, 189 to 251, 315 to 377, 441 to 503, 567 to 629, 693 to 755, 819 to 881 or 945 to 999.

NOTE: This ensures that the UE can listen to the second CCCH when more than one basic physical channel is configured for the CCCH. This is necessary for the test of "paging re-organization".

#### 8.3.2.3 EF<sub>Keys</sub> (Cipherring and Integrity Keys)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.4 EF<sub>KeySPS</sub> (Ciphering and Integrity Keys for Packet Switched domain)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.5 EF<sub>PLMNwAcT</sub> (User controlled PLMN selector with Access Technology)

File size: 5n bytes

Default values (HEX):

|                        |          |                                                                                                |
|------------------------|----------|------------------------------------------------------------------------------------------------|
| Bytes 1 to 3:          | 32 F4 10 | (MCC, MNC) - Translates to 234, 01                                                             |
| Bytes 4 to 5:          | C8 B0    | (Access Technology) - Translates to UTRAN, E-UTRAN, NG-RAN, GSM, cdma2000 HRPD, cdma2000 1xRTT |
| Bytes 6 to 8:          | 32 F4 20 | (MCC, MNC)                                                                                     |
| Bytes 9 to 10:         | C8 B0    | (Access Technology)                                                                            |
| Bytes 11 to 13:        | 32 F4 30 | (MCC, MNC)                                                                                     |
| ....                   |          |                                                                                                |
| ....                   |          |                                                                                                |
| ....                   |          |                                                                                                |
| Bytes(5n-4) to (5n-2): | 32 F4 43 | (MCC, MNC)                                                                                     |
| Bytes (5n-1) to 5n:    | C8 B0    | (Access Technology)                                                                            |

PLMNs are shown coded above since this is the largest number required for a test. It is necessary to take this into account since the USIM cards must be dimensioned to cope with this number of records.

### 8.3.2.6 EF<sub>HPPLMN</sub> (Higher Priority PLMN search period)

File size: 1 byte

Default value (HEX): 00 (No higher priority PLMN search attempts)

### 8.3.2.7 EF<sub>ACMmax</sub> (ACM maximum value)

File size: 3 bytes

Default:

|         |    |
|---------|----|
| Byte 1: | 00 |
| Byte 2: | 00 |
| Byte 3: | 00 |

The above translates to: "Not valid".

### 8.3.2.8 EF<sub>UST</sub> (USIM Service Table)

Services will be allocated and activated as follows.

| Services      |                                         | Activated | Version |
|---------------|-----------------------------------------|-----------|---------|
| Service n°1 : | Local Phone Book                        | Option    |         |
| Service n°2 : | Fixed Dialling Numbers (FDN)            | Option    |         |
| Service n°3 : | Extension 2                             | Option    |         |
| Service n°4 : | Service Dialling Numbers (SDN)          | Option    |         |
| Service n°5 : | Extension3                              | Option    |         |
| Service n°6 : | Barred Dialling Numbers (BDN)           | Option    |         |
| Service n°7 : | Extension4                              | Option    |         |
| Service n°8 : | Outgoing Call Information (OCI and OCT) | Option    |         |
| Service n°9 : | Incoming Call Information (ICI and ICT) | Option    |         |
| Service n°10: | Short Message Storage (SMS)             | Yes       |         |

| Services      |                                                                         | Activated | Version         |
|---------------|-------------------------------------------------------------------------|-----------|-----------------|
| Service n°11: | Short Message Status Reports (SMSR)                                     | Option    |                 |
| Service n°12: | Short Message Service Parameters (SMSP)                                 | Yes       |                 |
| Service n°13: | Advice of Charge (AoC)                                                  | Yes       |                 |
| Service n°14: | Capability Configuration Parameters (CCP)                               | Yes       |                 |
| Service n°15: | Cell Broadcast Message Identifier                                       | Yes       |                 |
| Service n°16: | Cell Broadcast Message Identifier Ranges                                | Yes       |                 |
| Service n°17: | Group Identifier Level 1                                                | Option    |                 |
| Service n°18: | Group Identifier Level 2                                                | Option    |                 |
| Service n°19: | Service Provider Name                                                   | Option    |                 |
| Service n°20: | User controlled PLMN selector with Access Technology                    | Yes       |                 |
| Service n°21: | MSISDN                                                                  | Option    |                 |
| Service n°22: | Image (IMG)                                                             | Option    |                 |
| Service n°23: | Not used (reserved for SoLSA)                                           | No        |                 |
| Service n°24: | Enhanced Multi-Level Precedence and Pre-emption Service                 | Option    |                 |
| Service n°25: | Automatic Answer for eLMPP                                              | Option    |                 |
| Service n°26: | RFU                                                                     | No        |                 |
| Service n°27: | GSM Access                                                              | Yes       |                 |
| Service n°28: | Data download via SMS-PP                                                | Option    |                 |
| Service n°29: | Data download via SMS-CB                                                | Option    |                 |
| Service n°30: | Call Control by USIM                                                    | Option    |                 |
| Service n°31: | MO-SMS Control by USIM                                                  | Option    |                 |
| Service n°32: | RUN AT COMMAND command                                                  | Option    |                 |
| Service n°33: | Packet Switched Domain                                                  | Yes       |                 |
| Service n°34: | Enabled Services Table                                                  | Yes       |                 |
| Service n°35: | APN Control List (ACL)                                                  | Option    |                 |
| Service n°36: | Depersonalization Control Keys                                          | Option    |                 |
| Service n°37: | Co-operative Network List                                               | Option    |                 |
| Service n°38: | GSM security context                                                    | Yes       |                 |
| Service n°39: | CPBCCH Information                                                      | Yes       |                 |
| Service n°40: | Investigation Scan                                                      | Yes       |                 |
| Service n°41: | MExE                                                                    | Option    |                 |
| Service n°42: | Operator controlled PLMN selector with Access Technology                | Yes       |                 |
| Service n°43: | HPLMN selector with Access Technology                                   | Yes       |                 |
| Service n°44: | Extension 5                                                             | Option    |                 |
| Service n°45: | PLMN Network Name                                                       | Option    |                 |
| Service n°46: | Operator PLMN List                                                      | Option    |                 |
| Service n°47: | Mailbox Dialling Numbers                                                | Option    |                 |
| Service n°48: | Message Waiting Indication Status                                       | Option    |                 |
| Service n°49: | Call Forwarding Indication Status                                       | Option    |                 |
| Service n°50: | Reserved and shall be ignored                                           | Option    |                 |
| Service n°51: | Service Provider Display Information                                    | Option    |                 |
| Service n°52: | Multimedia Messaging Service (MMS)                                      | Option    |                 |
| Service n°53: | Extension 8                                                             | Option    |                 |
| Service n°54: | Call control on GPRS by USIM                                            | Option    |                 |
| Service n°55: | MMS User Connectivity Parameters                                        | Option    |                 |
| Service n°56: | Network's indication of alerting in the MS (NIA)                        | Option    |                 |
| Service n°57: | VGCS Group Identifier List (EF <sub>VGCS</sub> and EF <sub>VGCS</sub> ) | YES       |                 |
| Service n°58: | VBS Group Identifier List (EF <sub>VBS</sub> and EF <sub>VBS</sub> )    | YES       |                 |
| Service n°59: | Pseudonym                                                               | Option    | REL-6 and later |
| Service n°60: | User Controlled PLMN selector for WLAN access                           | Option    | REL-6 and later |
| Service n°61: | Operator Controlled PLMN selector for WLAN access                       | Option    | REL-6 and later |
| Service n°62: | User controlled WSID list                                               | Option    | REL-6 and later |
| Service n°63: | Operator controlled WSID list                                           | Option    | REL-6 and later |
| Service n°64: | VGCS security                                                           | YES       | REL-6 and later |
| Service n°65: | VBS security                                                            | YES       | REL-6 and later |
| Service n°66: | WLAN Reauthentication Identity                                          | Option    | REL-6 and later |
| Service n°67: | Multimedia Messages Storage                                             | Option    | REL-6 and later |
| Service n°68: | Generic Bootstrapping Architecture (GBA)                                | Option    | REL-6 and later |
| Service n°69: | MBMS security                                                           | Option    | REL-6 and later |
| Service n°70: | Data download via USSD and USSD application mode                        | Option    | REL-6 and later |
| Service n°71: | Equivalent HPLMN                                                        | Option    | REL-6 and later |
| Service n°72: | Additional TERMINAL PROFILE after UICC activation                       | Option    | REL-6 and later |
| Service n°73: | Equivalent HPLMN Presentation Indication                                | Option    | REL-6 and later |

| Services     |                                                  | Activated | Version         |
|--------------|--------------------------------------------------|-----------|-----------------|
| Service n°74 | Last RPLMN Selection Indication                  | Yes       | REL-7 and later |
| Service n°75 | OMA BCAST Smart Card Profile                     | No        | REL-7 and later |
| Service n°76 | GBA-based Local Key Establishment Mechanism      | Option    | REL-7 and later |
| Service n°77 | Terminal Applications                            | No        | REL-7 and later |
| Service n°78 | Service Provider Name Icon                       | Option    | REL-8 and later |
| Service n°79 | PLMN Network Name Icon                           | Option    | REL-8 and later |
| Service n°80 | Connectivity Parameters for USIM IP connections  | Option    | REL-8 and later |
| Service n°81 | Home I-WLAN Specific Identifier List             | No        | REL-8 and later |
| Service n°82 | I-WLAN Equivalent HPLMN Presentation Indication  | No        | REL-8 and later |
| Service n°83 | I-WLAN HPLMN Priority Indication                 | No        | REL-8 and later |
| Service n°84 | I-WLAN Last Registered PLMN                      | No        | REL-8 and later |
| Service n°85 | EPS Mobility Management Information              | Option    | REL-8 and later |
| Service n°86 | Allowed CSG Lists and corresponding indications  | Option    | REL-8 and later |
| Service n°87 | Call control on EPS PDN connection by USIM       | No        | REL-8 and later |
| Service n°88 | HPLMN Direct Access                              | Option    | REL-8 and later |
| Service n°89 | eCall Data                                       | Option    | REL-8 and later |
| Service n°90 | Operator CSG Lists and corresponding indications | Option    | REL-9 and later |
| Service n°92 | Support of CSG Display Control                   | Option    | REL-9 and later |

### 8.3.2.9 EF<sub>ACM</sub> (Accumulated Call Meter)

File size: 3 bytes

Default: Byte 1: 00  
 Byte 2: 00  
 Byte 3: 00

The above translates to: "Not yet implemented".

### 8.3.2.10 EF<sub>GID1</sub> (Group Identifier Level 1)

The programming of this EF is a test house option.

### 8.3.2.11 EF<sub>GID2</sub> (Group Identifier Level 2)

The programming of this EF is a test house option.

### 8.3.2.12 EF<sub>SPN</sub> (Service Provider Name)

The programming of this EF is a test house option.

### 8.3.2.13 EF<sub>PUCT</sub> (Price per Unit and Currency Table)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.14 EF<sub>CBMI</sub> (Cell Broadcast Message identifier selection)

The programming of this EF is a test house option.

The file size is 2n bytes, where n is the number of Cell broadcast message identifier records - each record defining a type of Cell Broadcast message which may be accessed by the UE. Care should be taken when dimensioning the USIM to take into account the number of Cell Broadcast message identifier records required.

### 8.3.2.15 EF<sub>ACC</sub> (Access Control Class)

The EFACC type A is the default type.

Type A;

File size: 2 Bytes

Default values (BIN): Byte 1: 000000\*\*  
 Byte 2: \*\*\*\*\*

The test house may set any single bit shown by "\*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

Type B;

Default values (BIN): Byte 1: 111110\*\*  
 Byte 2: \*\*\*\*\*

The test house may set any single bit shown by "\*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

Type C;

File size: 2 Bytes  
 Default values (BIN): Byte 1: 100010\*\*  
 Byte 2: \*\*\*\*\*

The test house may set any single bit shown by "\*" to "1". This determines the access control class of the USIM.

Type D;

Default values (BIN): Byte 1: 011100\*\*  
 Byte 2: \*\*\*\*\*

The test house may set any single bit shown by "\*" to "1". This determines the access control class of the USIM.

### 8.3.2.16 EF<sub>FPLMN</sub> (Forbidden PLMNs)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.17 EF<sub>LOCi</sub> (Location Information)

File size: 11 Bytes  
 Default values: Bytes 1 to 4 (HEX): FF FF FF FF (TMSI)  
 Bytes 5 to 9 (HEX): 42 F6 18 FF FE (LAI)  
 Byte 10 (HEX): FF (RFU)  
 Byte 11 (BIN): 00000001 (Location Update Status = "not updated")

Bytes 5 to 9: LAI-MCC = 246 (bytes 5 to 6) and LAI-MNC = 81 (byte 7) are frequently used. The LAC (bytes 8 to 9) is set to "FF FE" since this, in conjunction with byte 11 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. TMSI in bytes 1 to 4) may be updated as a result of a location update attempt by the UE.

### 8.3.2.18 EF<sub>AD</sub> (Administrative Data)

File size: 4 bytes  
 Default values: Byte 1: 10000000 - (type approval operations)  
 Byte 2: 00000000  
 Byte 3: 00000000  
 Byte 4: 00000010



**8.3.2.19 Void****8.3.2.20 EF<sub>CBMID</sub> (Cell Broadcast Message Identifier for Data Download)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.21 EF<sub>ECC</sub> (Emergency Call Codes)**

The programming of this EF is a test house option.

**8.3.2.22 EF<sub>CBMIR</sub> (Cell Broadcast Message Identifier Range selection)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.23 EF<sub>PSLOCI</sub> (Packet Switched location information)**

File size: 14 Bytes

Default values: Bytes 1 to 4 (HEX): FF FF FF FF (P-TMSI)

Bytes 5 to 7 (HEX): FF FF FF (P-TMSI signature value)

Bytes 8 to 13 (HEX): 42 F6 18 FF FE FF (RAI)

Byte 14 (BIN): 00000001 (Routing Area update status = "not updated")

Bytes 8 to 13: RAI-MCC = 246 (bytes 8 to 9) and RAI-MNC = 81 (byte 10) are frequently used. The LAC (bytes 11 to 12) is set to "FF FE" since this, in conjunction with byte 14 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. P-TMSI in bytes 1 to 4) may be updated as a result of a location update attempt by the UE.

**8.3.2.24 EF<sub>FDN</sub> (Fixed Dialling Numbers)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.25 EF<sub>SMS</sub> (Short messages)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.26 EF<sub>MSISDN</sub> (MSISDN)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.27 EF<sub>SMSP</sub> (Short message service parameters)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.28 EF<sub>SMSS</sub> (SMS status)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.29 EF<sub>SDN</sub> (Service Dialling Numbers)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.30 EF<sub>EXT2</sub> (Extension2)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.31 EF<sub>EXT3</sub> (Extension3)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.32 EF<sub>SMSR</sub> (Short message status reports)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.33 EF<sub>ICI</sub> (Incoming Call Information)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.34 EF<sub>OCI</sub> (Outgoing Call Information)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.35 EF<sub>ICT</sub> (Incoming Call Timer)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.36 EF<sub>OCT</sub> (Outgoing Call Timer)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.37 EF<sub>EXT5</sub> (Extension5)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.38 EF<sub>CCP2</sub> (Capability Configuration Parameters 2)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.39 EF<sub>eMLPP</sub> (enhanced Multi Level Precedence and Pre-emption)**

The programming of this EF is a test house option.

**8.3.2.40 EF<sub>AAeM</sub> (Automatic Answer for eMLPP Service)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.41 Void****8.3.2.42 EF<sub>Hiddenkey</sub> (Key for hidden phone book entries)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.43 Void****8.3.2.44 EF<sub>BDN</sub> (Barred dialling numbers)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.45 EF<sub>EXT4</sub> (Extension 4)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.46 EF<sub>CMI</sub> (Comparison method information)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.47 EF<sub>EST</sub> (Enabled service table)**

The programming of this EF is a test house option.

**8.3.2.48 EF<sub>ACL</sub> (Access point name control list)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.49 EF<sub>DCk</sub> (Depersonalization control keys)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.50 EF<sub>CNL</sub> (Co-operative network list)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.51 EF<sub>START-HFN</sub> (Initialisation values for Hyperframe number)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.52 EF<sub>THRESHOLD</sub> (Maximum value of START)**

The programming of this EF is a test house option.

**8.3.2.53 EF<sub>OPLMNwACT</sub> (Operator controlled PLMN selector with Access Technology)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.54 EF<sub>HPLMNwACT</sub> (HPLMN selector with Access Technology)**

File size: 5n (n ≥ 1) Bytes

Default values: Bytes 1 to 3 (HEX): 00 F1 10 (MCC/MNC of Test UICC's Home PLMN)

Bytes 4 to 5 (HEX): C8 B0 (all Access Technologies)

Bytes 6 to 5n (HEX): FF FF FF 00 00  
FF FF FF 00 00  
...  
FF FF FF 00 00

Bytes 1 to 3: 1<sup>st</sup> HPLMN entry with HPLMN-MCC = 001 (bytes 1 to 2) and HPLMN-MNC = 01 (byte 3) which are frequently used in multimode and equal the EF IMSI's default MCC/MNC information.

Bytes 4 to 5: All Access Technologies selected for 1<sup>st</sup> HPLMN entry.

Bytes 6 to 5n: 2<sup>nd</sup> and more HPLMN entries are empty as per default EF parameters given in 3GPP TS 31.102 [23], annex E.

**8.3.2.55 EF<sub>ARR</sub> (Access rule reference)**

The programming of this EF is a test house option.

**8.3.2.56 Void****8.3.2.57 EF<sub>NETPAR</sub> (Network Parameters)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.58 EF<sub>PNN</sub> (PLMN Network Name)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.59 EF<sub>OPL</sub> (Operator PLMN List)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.60 EF<sub>MBDN</sub> (Mailbox Dialling Numbers)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.61 EF<sub>EXT6</sub> (Extension6)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.62 EF<sub>MBI</sub> (Mailbox Identifier)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.63 EF<sub>MWIS</sub> (Message Waiting Indication Status)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.64 EF<sub>CFIS</sub> (Call Forwarding Indication Status)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.65 EF<sub>EXT7</sub> (Extension7)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.66 EF<sub>SPDI</sub> (Service Provider Display Information)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.67 EF<sub>MMSN</sub> (MMS Notification)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.68 EF<sub>EXT8</sub> (Extension 8)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.69 EF<sub>MMSICP</sub> (MMS Issuer Connectivity Parameters)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.70 EF<sub>MMSUP</sub> (MMS User Preferences)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.71 EF<sub>MMSUCP</sub> (MMS User Connectivity Parameters)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

**8.3.2.72 EF<sub>NIA</sub> (Network's Indication of Alerting)**

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

If service n°57 is "available", this file shall be present.

This EF contains a list of those VGCS group identifiers the user has subscribed to. The elementary file is used by the ME for group call establishment and group call reception.

File size: Bytes 200

Default values:

| Bytes | Group ID | Value   | BCD encoding in the USIM |
|-------|----------|---------|--------------------------|
| 1-4   | 1        | 12      | 21 FF FF FF              |
| 5-8   | 2        | 123     | 21 F3 FF FF              |
| 9-12  | 3        | 1234    | 21 43 FF FF              |
| 13-16 | 4        | 12348   | 21 43 F8 FF              |
| 17-20 | 5        | 123491  | 21 43 19 FF              |
| 21-24 | 6        | 1235029 | 21 53 20 F9              |
| 25-28 | 7        | 12351   | 21 53 F1 FF              |
| 29-32 | 8        | 12352   | 21 53 F2 FF              |

| Bytes   | Group ID | Value   | BCD encoding in the USIM |
|---------|----------|---------|--------------------------|
| 33-36   | 9        | 12353   | 21 53 F3 FF              |
| 37-40   | 10       | 12354   | 21 53 F4 FF              |
| 41-44   | 11       | 12355   | 21 53 F5 FF              |
| 45-48   | 12       | 12356   | 21 53 F6 FF              |
| 49-52   | 13       | 12357   | 21 53 F7 FF              |
| 53-56   | 14       | 12358   | 21 53 F8 FF              |
| 57-60   | 15       | 12359   | 21 53 F9 FF              |
| 61-64   | 16       | 20000   | 02 00 F0 FF              |
| 65-68   | 17       | 20001   | 02 00 F1 FF              |
| 69-72   | 18       | 20002   | 02 00 F2 FF              |
| 73-76   | 19       | 20003   | 02 00 F3 FF              |
| 77-80   | 20       | 20004   | 02 00 F4 FF              |
| 81-84   | 21       | 20005   | 02 00 F5 FF              |
| 85-88   | 22       | 20006   | 02 00 F6 FF              |
| 89-92   | 23       | 20007   | 02 00 F7 FF              |
| 93-96   | 24       | 20008   | 02 00 F8 FF              |
| 97-100  | 25       | 20009   | 02 00 F9 FF              |
| 101-104 | 26       | 20010   | 02 10 F0 FF              |
| 105-108 | 27       | 66660   | 66 66 F0 FF              |
| 109-112 | 28       | 66661   | 66 66 F1 FF              |
| 113-116 | 29       | 66662   | 66 66 F2 FF              |
| 117-120 | 30       | 666638  | 66 66 83 FF              |
| 121-124 | 31       | 66664   | 66 66 F4 FF              |
| 125-128 | 32       | 66665   | 66 66 F5 FF              |
| 129-132 | 33       | 66666   | 66 66 F6 FF              |
| 133-136 | 34       | 66667   | 66 66 F7 FF              |
| 137-140 | 35       | 66668   | 66 66 F8 FF              |
| 141-144 | 36       | 66669   | 66 66 F9 FF              |
| 145-148 | 37       | 66670   | 66 76 F0 FF              |
| 149-152 | 38       | 80120   | 08 21 F0 FF              |
| 153-156 | 39       | 80121   | 08 21 F1 FF              |
| 157-160 | 40       | 80122   | 08 21 F2 FF              |
| 161-164 | 41       | 80123   | 08 21 F3 FF              |
| 165-168 | 42       | 80124   | 08 21 F4 FF              |
| 169-172 | 43       | 80125   | 08 21 F5 FF              |
| 173-176 | 44       | 80126   | 08 21 F6 FF              |
| 177-180 | 45       | 80127   | 08 21 F7 FF              |
| 181-184 | 46       | 80128   | 08 21 F8 FF              |
| 185-188 | 47       | 80129   | 08 21 F9 FF              |
| 189-192 | 48       | 80130   | 08 31 F0 FF              |
| 193-196 | 49       | 99999   | 99 99 F9 FF              |
| 197-200 | 50       | 1111119 | 11 11 11 F9              |

For Group Id = 1 V\_Ki with VK\_Id = 0:

Size: 16 Bytes

Default values:

- Bytes 1 (HEX): 00
- Bytes 2 (HEX): 01
- Bytes 3 (HEX): 02
- Bytes 4 (HEX): 03
- Bytes 5 (HEX): 04
- Bytes 6 (HEX): 05
- Bytes 7 (HEX): 06
- Bytes 8 (HEX): 07
- Bytes 9 (HEX): 08
- Bytes 10 (HEX): 09

Bytes 11 (HEX): 0A

Bytes 12 (HEX): 0B

Bytes 13 (HEX): 0C

Bytes 14 (HEX): 0D

Bytes 15 (HEX): 0E

Bytes 16 (HEX): 0F

Group Id= 1: V\_Ki with VK\_Id = 1:

Size: 16 Bytes

Default values: Bytes 1 (HEX): 01

Bytes 2 (HEX): 02

Bytes 3 (HEX): 03

Bytes 4 (HEX): 04

Bytes 5 (HEX): 05

Bytes 6 (HEX): 06

Bytes 7 (HEX): 07

Bytes 8 (HEX): 08

Bytes 9 (HEX): 09

Bytes 10 (HEX): 0A

Bytes 11 (HEX): 0B

Bytes 12 (HEX): 0C

Bytes 13 (HEX): 0D

Bytes 14 (HEX): 0E

Bytes 15 (HEX): 0F

Bytes 16 (HEX): 00

### 8.3.2.74 EF<sub>VGCS</sub> (Voice Group Call Service Status)

.If service n°57 is "available", this file shall be present.

This EF contains the status of activation for the VGCS group identifiers. The elementary file is directly related to the EF<sub>VGCS</sub>. This EF shall always be allocated if EF<sub>VGCS</sub> is allocated. The following list of group ID are activated: 1, 4, 20, 30, 50.

File size: 7 Bytes

Default value(HEX) : Bytes 1-7: '09 00 08 20 00 00 FE'

### 8.3.2.75 EF<sub>VBS</sub> (Voice Broadcast Service)

If service n°58 is "available", this file shall be present.

This EF contains a list of those VBS group identifiers the user has subscribed to. The elementary file is used by the ME for broadcast call establishment and broadcast call reception.

File size: Bytes 200

Default values:

| Bytes | Group ID | Value | BCD encoding in the USIM |
|-------|----------|-------|--------------------------|
| 1-4   | 1        | 12    | 21 FF FF FF              |
| 5-8   | 2        | 123   | 21 F3 FF FF              |

| Bytes   | Group ID | Value   | BCD encoding in the USIM |
|---------|----------|---------|--------------------------|
| 9-12    | 3        | 1234    | 21 43 FF FF              |
| 13-16   | 4        | 12348   | 21 43 F8 FF              |
| 17-20   | 5        | 123491  | 21 43 19 FF              |
| 21-24   | 6        | 1235029 | 21 53 20 F9              |
| 25-28   | 7        | 12351   | 21 53 F1 FF              |
| 29-32   | 8        | 12352   | 21 53 F2 FF              |
| 33-36   | 9        | 12353   | 21 53 F3 FF              |
| 37-40   | 10       | 12354   | 21 53 F4 FF              |
| 41-44   | 11       | 12355   | 21 53 F5 FF              |
| 45-48   | 12       | 12356   | 21 53 F6 FF              |
| 49-52   | 13       | 12357   | 21 53 F7 FF              |
| 53-56   | 14       | 12358   | 21 53 F8 FF              |
| 57-60   | 15       | 12359   | 21 53 F9 FF              |
| 61-64   | 16       | 20000   | 02 00 F0 FF              |
| 65-68   | 17       | 20001   | 02 00 F1 FF              |
| 69-72   | 18       | 20002   | 02 00 F2 FF              |
| 73-76   | 19       | 20003   | 02 00 F3 FF              |
| 77-80   | 20       | 20004   | 02 00 F4 FF              |
| 81-84   | 21       | 20005   | 02 00 F5 FF              |
| 85-88   | 22       | 20006   | 02 00 F6 FF              |
| 89-92   | 23       | 20007   | 02 00 F7 FF              |
| 93-96   | 24       | 20008   | 02 00 F8 FF              |
| 97-100  | 25       | 20009   | 02 00 F9 FF              |
| 101-104 | 26       | 20010   | 02 10 F0 FF              |
| 105-108 | 27       | 66660   | 66 66 F0 FF              |
| 109-112 | 28       | 66661   | 66 66 F1 FF              |
| 113-116 | 29       | 66662   | 66 66 F2 FF              |
| 117-120 | 30       | 666638  | 66 66 83 FF              |
| 121-124 | 31       | 66664   | 66 66 F4 FF              |
| 125-128 | 32       | 66665   | 66 66 F5 FF              |
| 129-132 | 33       | 66666   | 66 66 F6 FF              |
| 133-136 | 34       | 66667   | 66 66 F7 FF              |
| 137-140 | 35       | 66668   | 66 66 F8 FF              |
| 141-144 | 36       | 66669   | 66 66 F9 FF              |
| 145-148 | 37       | 66670   | 66 76 F0 FF              |
| 149-152 | 38       | 80120   | 08 21 F0 FF              |
| 153-156 | 39       | 80121   | 08 21 F1 FF              |
| 157-160 | 40       | 80122   | 08 21 F2 FF              |
| 161-164 | 41       | 80123   | 08 21 F3 FF              |
| 165-168 | 42       | 80124   | 08 21 F4 FF              |
| 169-172 | 43       | 80125   | 08 21 F5 FF              |
| 173-176 | 44       | 80126   | 08 21 F6 FF              |
| 177-180 | 45       | 80127   | 08 21 F7 FF              |
| 181-184 | 46       | 80128   | 08 21 F8 FF              |
| 185-188 | 47       | 80129   | 08 21 F9 FF              |
| 189-192 | 48       | 80130   | 08 31 F0 FF              |
| 193-196 | 49       | 99999   | 99 99 F9 FF              |
| 197-200 | 50       | 1111119 | 11 11 11 F9              |

### 8.3.2.76 EF<sub>VBSS</sub> (Voice Broadcast Service Status)

If service n°58 is "available", this file shall be present.

This EF contains the status of activation for the VBS group identifiers. The elementary file is directly related to the EF<sub>VBS</sub>. This EF shall always be allocated if EF<sub>VBS</sub> is allocated.

The following list of group ID are activated: 1, 4, 20, 30, 50.

File size: 7 Bytes

Default values (HEX): Bytes 1-7: '09 00 08 20 00 00 FE'

For Group ID= 1 V\_Ki with VK\_Id = 0:

Size: 16 Bytes

Default values: Bytes 1 (HEX): 0F  
Bytes 2 (HEX): 0E  
Bytes 3 (HEX): 0D  
Bytes 4 (HEX): 0C  
Bytes 5 (HEX): 0B  
Bytes 6 (HEX): 0A  
Bytes 7 (HEX): 09  
Bytes 8 (HEX): 08  
Bytes 9 (HEX): 07  
Bytes 10 (HEX): 06  
Bytes 11 (HEX): 05  
Bytes 12 (HEX): 04  
Bytes 13 (HEX): 03  
Bytes 14 (HEX): 02  
Bytes 15 (HEX): 01  
Bytes 16 (HEX): 00

For Group Id=1 V\_Ki with VK\_Id = 1:

Size: 16 Bytes

Default values: Bytes 1 (HEX): 00  
Bytes 2 (HEX): 0F  
Bytes 3 (HEX): 0E  
Bytes 4 (HEX): 0D  
Bytes 5 (HEX): 0C  
Bytes 6 (HEX): 0B  
Bytes 7 (HEX): 0A  
Bytes 8 (HEX): 09  
Bytes 9 (HEX): 08  
Bytes 10 (HEX): 07  
Bytes 11 (HEX): 06  
Bytes 12 (HEX): 05  
Bytes 13 (HEX): 04  
Bytes 14 (HEX): 03  
Bytes 15 (HEX): 02  
Bytes 16 (HEX): 01



### 8.3.2.77 EF<sub>VGCSA</sub> (Voice Group Call Service Ciphering Algorithm)

If service n°64 is "available", this file shall be present.

This EF contains the ciphering algorithm identifiers for each of the Master Group Key (V\_Ki) of each VGCS group that the user has subscribed to (defined in EF<sub>VGCS</sub>).

File size: 2 Bytes

Default value: Byte 1 = '01' (i.e. A5/1) and Byte 2 = '03' (i.e. A5/3)

### 8.3.2.78 EF<sub>VBSA</sub> (Voice Broadcast Service Ciphering Algorithm)

If service n°65 is "available", this file shall be present.

This EF contains the ciphering algorithm identifiers for each of the Master Group Key (V\_Ki) of each VBS group that the user has subscribed to (defined in EF<sub>VBS</sub>).

File size: 2 Bytes

Default value: Byte 1 = '01' (i.e. A5/1) and Byte 2 = '03' (i.e. A5/3)

### 8.3.2.79 EF<sub>GBABP</sub> (GBA Bootstrapping parameters)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.80 EF<sub>MSK</sub> (MBMS Service Keys List)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.81 EF<sub>MUK</sub> (MBMS User Key)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.82 Void

### 8.3.2.83 EF<sub>GBANL</sub> (GBA NAF List)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.84 EF<sub>EHPLMN</sub> (Equivalent HPLMN)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.85 EF<sub>EHPLMNPI</sub> (Equivalent HPLMN Presentation Indication)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.86 EF<sub>LRPLMNSI</sub> (Last RPLMN Selection Indication)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.87 EF<sub>NAFKCA</sub> (NAF Key Centre Address)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.88 EF<sub>SPNI</sub> (Service Provider Name Icon)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.89 EF<sub>PNNI</sub> (PLMN Network Name Icon)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.90 EF<sub>NCP-IP</sub> (Network Connectivity Parameters for USIM IP connections)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.2.91 EF<sub>EPSLOCi</sub> (EPS location information)

The programming of this EF is a test house option.

### 8.3.2.92 EF<sub>EPSNSC</sub> (EPS NAS Security Context)

The programming of this EF is a test house option.

## 8.3.3 Contents of DFs at the USIM ADF (Application DF) level

### 8.3.3.1 Contents of files at the USIM SoLSA level

#### 8.3.3.1.1 EF<sub>SAI</sub> (SoLSA Access Indicator)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.1.2 EF<sub>SLL</sub> (SoLSA LSA List)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.1.3 LSA Descriptor files

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.3.1.4 Contents of files at the MExE level

#### 8.3.3.1.4.1 EF<sub>MExE-ST</sub> (MExE Service table)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.1.4.2 EF<sub>ORPK</sub> (Operator Root Public Key)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.1.4.3 EF<sub>ARPK</sub> (Administrator Root Public Key)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.1.4.4 EF<sub>TPRPk</sub> (Third Party Root Public Key)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.1.4.5 EF<sub>TKCDF</sub> (Trusted Key/Certificates Data Files)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.3.2 Contents of files at the DF PHONEBOOK level

#### 8.3.3.2.1 EF<sub>PBR</sub> (Phone Book Reference file)

The programming of this EF is a test house option.

#### 8.3.3.2.2 EF<sub>IAP</sub> (Index Administration Phone book)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.2.3 EF<sub>ADN</sub> (Abbreviated dialling numbers)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.2.4 EF<sub>EXT1</sub> (Extension1)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.2.5 EF<sub>PBC</sub> (Phone Book Control)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.2.6 EF<sub>GRP</sub> (Grouping file)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.2.7 EF<sub>AAS</sub> (Additional number Alpha String)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.2.8 EF<sub>GAS</sub> (Grouping information Alpha String)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.2.9 EF<sub>ANR</sub> (Additional Number)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.2.10 EF<sub>SNE</sub> (Second Name Entry)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.2.11 EF<sub>CCP1</sub> (Capability Configuration Parameters 1)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.2.12 Phone Book Synchronization

##### 8.3.3.2.12.1 EF<sub>UID</sub> (Unique Identifier)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

##### 8.3.3.2.12.2 EF<sub>PSC</sub> (Phone book Synchronization Counter)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

##### 8.3.3.2.12.3 EF<sub>CC</sub> (Change Counter)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

##### 8.3.3.2.12.4 EF<sub>PUID</sub> (Previous Unique Identifier)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.2.13 EF<sub>EMAIL</sub> (e-mail address)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.3.3 Contents of files at the DF GSM-ACCESS level (Files required for GSM Access)

#### 8.3.3.3.1 EF<sub>Kc</sub> (GSM Ciphering key Kc)

File size: 9 Bytes

Default values (HEX): Bytes 1 to 8: Align with Kc used by SS

Byte 9: 07

Byte 9 is set to 07 to indicate that there is no key available at the start of a test.

The bytes within this elementary file may be updated by the UE as a result of a successful authentication attempt.

#### 8.3.3.3.2 EF<sub>KcGPRS</sub> (GPRS Ciphering key KcGPRS)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.3.3 Void

#### 8.3.3.3.4 EF<sub>CPBCCH</sub> (CPBCCH Information)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.3.3.5 EF<sub>InvScan</sub> (Investigation Scan)

The programming of this EF follows default parameter.

### 8.3.3.4 Contents of files at the DF HNB level

#### 8.3.3.4.1 EF<sub>ACSGL</sub> (Allowed CSG Lists)

The programming of this EF is a test house option.

#### 8.3.3.4.2 EF<sub>CSGT</sub> (CSG Type)

The programming of this EF is a test house option.

#### 8.3.3.4.3 EF<sub>HNB</sub> (Home NodeB Name)

The programming of this EF is a test house option.

#### 8.3.3.4.4 EF<sub>OCSGL</sub> (Operator CSG Lists)

The programming of this EF is a test house option.

#### 8.3.3.4.5 EF<sub>OCSGT</sub> (Operator CSG Type)

The programming of this EF is a test house option.

#### 8.3.3.4.6 EF<sub>OHNB</sub> (Operator Home NodeB Name)

The programming of this EF is a test house option.

### 8.3.4 Contents of EFs at the TELECOM level

#### 8.3.4.1 EF<sub>ADN</sub> (Abbreviated dialling numbers)

The programming of this EF is a test house option. It should be noted that sufficient space should be provided on the USIM card for 101 records.

#### 8.3.4.2 EF<sub>EXT1</sub> (Extension1)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.4.3 EF<sub>ECCP</sub> (Extended Capability Configuration Parameter)

The programming of this EF is a test house option.

#### 8.3.4.4 EF<sub>SUME</sub> (SetUpMenu Elements)

The programming of this EF is a test house option.

#### 8.3.4.5 EF<sub>ARR</sub> (Access rule reference)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.5 Contents of DFs at the TELECOM level

### 8.3.5.1 Contents of files at the DF<sub>GRAPHICS</sub> level

#### 8.3.5.1.1 EF<sub>IMG</sub> (Image)

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

#### 8.3.5.1.2 Image Instance Data Files

The programming of this EF follows default parameter written in 3GPP TS 31.102 [23], annex E.

### 8.3.5.2 Contents of files at the DF<sub>PHONEBOOK</sub> under the DF<sub>TELECOM</sub>

The programming of this EF is a test house option.

## 9 Default Message Contents

### 9.1 Default Message Contents for Signalling

#### 9.1.1 Default RRC Message Contents (FDD)

This clause contains the default values of common messages, which unless indicated otherwise in specific clauses of 3GPP TS 34.123-1 [1], shall be transmitted and checked by the system simulator.

In this clause, decimal values are normally used. However, sometimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

The necessary L3 messages are listed in alphabetic order, with the exception of the SYSTEM INFORMATION messages, where it is the information elements which are listed in alphabetic order (this is because some information elements occur in several SYSTEM INFORMATION types).

Default SYSTEM INFORMATION:

NOTE: SYSTEM INFORMATION BLOCK TYPE 1 (except for PLMN type "GSM-MAP"), SYSTEM INFORMATION BLOCK TYPE 8, SYSTEM INFORMATION BLOCK TYPE 9, SYSTEM INFORMATION BLOCK TYPE 10, SYSTEM INFORMATION BLOCK TYPE 14, SYSTEM INFORMATION BLOCK TYPE 15 and SYSTEM INFORMATION BLOCK TYPE 16 messages are not used.

Contents of ACTIVE SET UPDATE message: AM

| Information Element                                         | Value/remark                                                                                                                                                       | Version            |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Message Type                                                |                                                                                                                                                                    |                    |
| RRC transaction identifier                                  | Arbitrarily selects one integer between 0 to 3                                                                                                                     |                    |
| Integrity check info                                        |                                                                                                                                                                    |                    |
| - message authentication code                               | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                    |
| - RRC message sequence number                               | SS provides the value of this IE, from its internal counter.                                                                                                       |                    |
| Activation time                                             | Now                                                                                                                                                                |                    |
| New U-RNTI                                                  | Not Present                                                                                                                                                        |                    |
| New H-RNTI                                                  | Not Present                                                                                                                                                        | Rel-6              |
| New Primary E-RNTI                                          | Not Present                                                                                                                                                        | Rel-6              |
| New Secondary E-RNTI                                        | Not Present                                                                                                                                                        | Rel-6              |
| CN information info                                         | Not Present                                                                                                                                                        |                    |
| DTX-DRX timing information                                  | Not Present                                                                                                                                                        | Rel-7              |
| DTX-DRX Information                                         | Not Present                                                                                                                                                        | Rel-7              |
| HS-SCCH less Information                                    | Not Present                                                                                                                                                        | Rel-7              |
| MIMO parameters                                             | Not Present                                                                                                                                                        | Rel-7              |
| MIMO mode with four transmit antennas parameters            | Not Present                                                                                                                                                        | Rel-11             |
| DCH Enhancements info FDD                                   | Not Present                                                                                                                                                        | Rel-12             |
| Maximum allowed UL TX power                                 | Not Present – use default value                                                                                                                                    |                    |
| Uplink secondary cell info FDD                              | Not Present                                                                                                                                                        | Rel-9              |
| E-DCH reconfiguration information on secondary UL frequency | Not Present                                                                                                                                                        | Rel-9              |
| Uplink CLTD info FDD                                        | Not Present                                                                                                                                                        | Rel-11             |
| F-TPICH reconfiguration info                                | Not Present                                                                                                                                                        | Rel-11             |
| Uplink OLTD info FDD                                        | Not Present                                                                                                                                                        | Rel-11             |
| Radio link addition information                             | Not Present                                                                                                                                                        |                    |
| Radio link addition information on secondary UL frequency   | Not Present                                                                                                                                                        | Rel-9              |
| Serving Cell Change Parameters                              | Not present                                                                                                                                                        | Rel-8              |
| Radio link removal information                              | Not Present                                                                                                                                                        |                    |
| Radio link removal information on secondary UL frequency    | Not present                                                                                                                                                        | Rel-9              |
| TX Diversity Mode                                           | None                                                                                                                                                               |                    |
| SSDT information                                            | Not Present                                                                                                                                                        | R99 and Rel-4 only |

| Information Element                                 | Value/remark | Version |
|-----------------------------------------------------|--------------|---------|
| DPC Mode                                            | Not Present  | Rel-5   |
| Serving HS-DSCH cell information                    | Not Present  | Rel-6   |
| E-DCH reconfiguration information                   | Not Present  | Rel-6   |
| UL 16QAM configuration                              | Not Present  | Rel-7   |
| UL 64QAM configuration                              | Not Present  | Rel-11  |
| Uplink MIMO info FDD                                | Not Present  | Rel-11  |
| E-DCH reconfiguration information same serving cell | Not Present  | Rel-7   |
| E-TFC Boost Info                                    | Not Present  | Rel-7   |
| E-DPDCH power interpolation                         | Not Present  | Rel-7   |
| Downlink secondary cell info FDD                    | Not present  | Rel-8   |
| Additional downlink secondary cell info list FDD    | Not present  | Rel-10  |
| Downlink secondary cell info FDD                    | Not Present  | Rel-10  |
| Additional downlink secondary cell info list FDD 2  | Not present  | Rel-11  |
| Downlink secondary cell info FDD                    | Not Present  | Rel-11  |

Contents of ACTIVE SET UPDATE COMPLETE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  | Checked to see if it matches the same value used in the corresponding downlink ACTIVE SET UPDATE message                                                                                             |
| RRC transaction identifier    |                                                                                                                                                                                                      |
| Integrity check info          | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code |                                                                                                                                                                                                      |
| - RRC Message sequence number |                                                                                                                                                                                                      |
|                               | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |

Contents of ACTIVE SET UPDATE FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  | Checked to see if it matches the same value used in the corresponding downlink ACTIVE SET UPDATE message                                                                                             |
| RRC transaction identifier    |                                                                                                                                                                                                      |
| Integrity check info          | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code |                                                                                                                                                                                                      |
| - RRC Message sequence number |                                                                                                                                                                                                      |
|                               | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Refer to test requirement                                                                                                                                                                            |

Contents of CELL UPDATE message: TM

| Information Element           | Value/remark                                                                                                                                                                                         | Version |  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--|
| Message Type                  | Checked to see if it is set to the following values<br>0000 0000 0001B                                                                                                                               |         |  |
| U-RNTI                        |                                                                                                                                                                                                      |         |  |
| - SRNC identity               | 0000 0000 0000 0000 0001B                                                                                                                                                                            |         |  |
| - S-RNTI                      |                                                                                                                                                                                                      |         |  |
| RRC transaction identifier    | Checked to see if it is absent                                                                                                                                                                       |         |  |
| Integrity check info          | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |  |
| - Message authentication code |                                                                                                                                                                                                      |         |  |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |  |
| START List                    | Checked to see if the 'CN domain identity' and 'START' IEs are present for all CN domains supported by the UE .                                                                                      | Rel-6   |  |
|                               | Checked to see if the 'CN domain identity' and 'START'                                                                                                                                               |         |  |

|                                           |                                                                                                                                                                                                  |        |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|                                           | IEs are present for each CN domain for which RABs are established or is the latest configured CN domain.                                                                                         |        |
| - CN domain identity<br>- START           | Checked to see if it is one of the supported CN domains<br>This IE is checked to see if it is present. The first/ leftmost bit of the bit string contains the most significant bit of the START. |        |
| AM_RLC error indication (RB2, RB3 or RB4) | Checked to see if it is set to 'FALSE'                                                                                                                                                           |        |
| AM_RLC error indication (RB>4)            | Checked to see if it is set to 'FALSE'                                                                                                                                                           |        |
| Cell update cause                         | See the specific test case                                                                                                                                                                       |        |
| Traffic volume indicator                  | Checked to see if it is absent                                                                                                                                                                   | Rel-6  |
| Failure cause                             | Checked to see if it is absent                                                                                                                                                                   |        |
| RB timer indicator                        |                                                                                                                                                                                                  |        |
| - T314 expired                            | Checked to see if it is set to 'FALSE'                                                                                                                                                           |        |
| - T315 expired                            | Checked to see if it is set to 'FALSE'                                                                                                                                                           |        |
| Establishment cause                       | This IE is checked to see if it is absent                                                                                                                                                        | Rel-5  |
| CS Call Type                              | Not Present                                                                                                                                                                                      | Rel-7  |
| HS-PDSCH in CELL_FACH                     | Not checked                                                                                                                                                                                      | Rel-7  |
| UE Mobility State Indicator               | Not Present                                                                                                                                                                                      | Rel-7  |
| Capability change indicator               | Not Present                                                                                                                                                                                      | Rel-7  |
| Reconfiguration Status Indicator          | Checked to see if it is absent                                                                                                                                                                   | Rel-6  |
| Measured results on RACH                  | Not checked                                                                                                                                                                                      |        |
| Logged Meas Available                     | Not Present                                                                                                                                                                                      | Rel-10 |
| ANR Logging Results Available             | Not Present                                                                                                                                                                                      | Rel-10 |

## Contents of CELL UPDATE CONFIRM message: UM

| Information Element                                                | Value/remark                                                                                                                                                       | Version            |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Message Type                                                       |                                                                                                                                                                    |                    |
| U-RNTI                                                             | If this message is sent on CCCH, use the following values. Else, this IE is absent.<br>0000 0000 0001B                                                             |                    |
| - SRNC identity                                                    | 0000 0000 0000 0000 0001B                                                                                                                                          |                    |
| - S-RNTI                                                           |                                                                                                                                                                    |                    |
| RRC transaction identifier                                         | Selects an arbitrary integer between 0 to 3                                                                                                                        |                    |
| Integrity check info                                               |                                                                                                                                                                    |                    |
| - message authentication code                                      | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                    |
| - RRC message sequence number                                      | SS provides the value of this IE, from its internal counter.                                                                                                       |                    |
| Integrity protection mode info                                     | Not Present                                                                                                                                                        |                    |
| Ciphering mode info                                                | Not Present                                                                                                                                                        |                    |
| Activation time                                                    | Not Present - use default value                                                                                                                                    |                    |
| New U-RNTI                                                         | Not Present                                                                                                                                                        |                    |
| New C-RNTI                                                         | Not Present                                                                                                                                                        |                    |
| New DSCH-RNTI                                                      | Not Present                                                                                                                                                        | R99 and Rel-4 only |
| New H-RNTI                                                         | Not Present                                                                                                                                                        | Rel-5              |
| New Primary E-RNTI                                                 | Not present                                                                                                                                                        | Rel-6              |
| New Secondary E-RNTI                                               | Not present                                                                                                                                                        | Rel-6              |
| RRC State indicator                                                | CELL_FACH                                                                                                                                                          |                    |
| UTRAN DRX cycle length coefficient                                 | Not Present                                                                                                                                                        |                    |
| RLC re-establish indicator (RB2, RB3 and RB4)                      | FALSE                                                                                                                                                              |                    |
| RLC re-establish indicator (RB5 and upwards)                       | FALSE                                                                                                                                                              |                    |
| CN information info                                                | Not Present                                                                                                                                                        |                    |
| URA identity                                                       | Not Present                                                                                                                                                        |                    |
| RNC support for change of UE capability                            | Not Present                                                                                                                                                        | Rel-7              |
| RB information to release list                                     | Not Present                                                                                                                                                        |                    |
| RB information to reconfigure list                                 | Not Present                                                                                                                                                        |                    |
| RB information to be affected list                                 | Not Present                                                                                                                                                        |                    |
| Downlink counter synchronization info                              | Not Present                                                                                                                                                        |                    |
| PDCH ROHC target mode                                              | Not Present                                                                                                                                                        | Rel-5              |
| UL Transport channel information common for all transport channels | Not Present                                                                                                                                                        |                    |
| Deleted TrCH information list                                      | Not Present                                                                                                                                                        |                    |
| Added or Reconfigured TrCH information list                        | Not Present                                                                                                                                                        |                    |
| CHOICE Mode                                                        | FDD                                                                                                                                                                |                    |



| Information Element                                                | Value/remark | Version            |
|--------------------------------------------------------------------|--------------|--------------------|
| - CPCH set ID                                                      | Not Present  | R99 and Rel-4 only |
| - Added or Reconfigured TrCH information for DRAC list             | Not Present  | R99 and Rel-4 only |
| DL Transport channel information common for all transport channels | Not Present  |                    |
| Deleted TrCH information list                                      | Not Present  |                    |
| Added or Reconfigured TrCH information list                        | Not Present  |                    |
| Frequency info                                                     | Not Present  |                    |
| DTX-DRX timing information                                         | Not Present  | Rel-7              |
| DTX-DRX Information                                                | Not Present  | Rel-7              |
| HS-SCCH less Information                                           | Not Present  | Rel-7              |
| MIMO parameters                                                    | Not Present  | Rel-7              |
| MIMO mode with four transmit antennas parameters                   | Not Present  | Rel-11             |
| DCH Enhancements info FDD                                          | Not Present  | Rel-12             |
| Maximum allowed UL TX power                                        | Not Present  |                    |
| CHOICE channel requirement                                         | Not Present  |                    |
| E-DCH Info                                                         | Not Present  | Rel-6              |
| CHOICE mode                                                        | FDD          | R99 and Rel-4 only |
| - Downlink PDSCH information                                       | Not Present  | R99 and Rel-4 only |
| Uplink secondary cell info FDD                                     | Not Present  | Rel-9              |
| Uplink CLTD info FDD                                               | Not Present  | Rel-11             |
| Uplink OLTD info FDD                                               | Not Present  | Rel-11             |
| Downlink HS-PDSCH Information                                      | Not Present  | Rel-5              |
| Downlink information common for all radio links                    | Not Present  |                    |
| Downlink information per radio link list                           | Not Present  |                    |
| Downlink information for each radio link                           | Not Present  |                    |
| Downlink secondary cell info FDD                                   | Not Present  | Rel-8              |
| Additional downlink secondary cell info list FDD                   | Not present  | Rel-10             |
| Downlink secondary cell info FDD                                   | Not Present  | Rel-10             |
| Additional downlink secondary cell info list FDD 2                 | Not present  | Rel-11             |
| Downlink secondary cell info FDD                                   | Not Present  | Rel-11             |
| Common E-RGCH info FDD                                             | Not Present  | Rel-11             |
| MBMS PL Service Restriction Information                            | Not Present  | Rel-6              |

## Contents of DOWNLINK DIRECT TRANSFER message: AM

| Information Element           | Value/remark                                                                                                                                                       |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                    |
| RRC transaction identifier    | Arbitrarily selects an integer between 0 and 3                                                                                                                     |
| Integrity check info          |                                                                                                                                                                    |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter.                                                                                                       |
| CN domain identity            | CS domain or PS domain                                                                                                                                             |
| NAS message                   | See Specific Message Content for each test case                                                                                                                    |

## Contents of HANDOVER FROM UTRAN COMMAND-GSM message: AM

| Information Element           | Value/remark                                                                                                                                                       |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                    |
| RRC transaction identifier    | Arbitrarily selects one integer between 0 to 3                                                                                                                     |
| Integrity check info          |                                                                                                                                                                    |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter.                                                                                                       |
| Activation time               | now                                                                                                                                                                |

|                                 |                                                                                                                                                                                                                                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RAB Info                        |                                                                                                                                                                                                                                                                                                     |
| - RAB identity                  | 0000 0001B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.                                                                                                                                                                                      |
| - CN domain identity            | CS domain                                                                                                                                                                                                                                                                                           |
| - NAS Synchronization Indicator | Not present                                                                                                                                                                                                                                                                                         |
| - Re-establishment timer        | Use T314                                                                                                                                                                                                                                                                                            |
| Inter-system message            |                                                                                                                                                                                                                                                                                                     |
| - CHOICE System type            | GSM                                                                                                                                                                                                                                                                                                 |
| - Frequency Band                | Set to "GSM/ PCS 1900" if GSM/ PCS 1900 is used in this test. Otherwise set to "GSM/DCS 1800 Band"                                                                                                                                                                                                  |
| - CHOICE GSM message            | Single GSM message                                                                                                                                                                                                                                                                                  |
| - Single GSM message            | GSM HANDOVER COMMAND formatted and coded according to GSM specifications as BIT STRING (1..512). The first/ leftmost/ most significant bit of the bit string contains bit 8 of the first octet of the GSM message. The contents of the HANDOVER COMMAND is to be defined in the specific test case. |

## Contents of HANDOVER FROM UTRAN FAILURE message: AM

| Information Element               | Value/remark                                                                                                                                                                                         |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                      |                                                                                                                                                                                                      |
| RRC transaction identifier        | Checked to see if it matches the same value used in the corresponding downlink HANDOVER FROM UTRAN COMMAND -GSM message                                                                              |
| Integrity check info              |                                                                                                                                                                                                      |
| - Message authentication code     | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number     | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Inter-RAT handover failure        |                                                                                                                                                                                                      |
| -Inter-RAT handover failure cause | physical channel failure                                                                                                                                                                             |
| Inter-system message              | Not Checked                                                                                                                                                                                          |

## Contents of INITIAL DIRECT TRANSFER message: AM

| Information Element            | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Version |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| Integrity check info           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - Message authentication code  | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.                                                                                                                                                                                                                                                                                                                                                                                                       |         |
| - RRC Message sequence number  | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |
| PLMN identity                  | This IE is checked to see if it is absent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |
| CN domain identity             | Checked to see if set to supported CN domain as specified in the Ixit statements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rel-6   |
| Intra Domain NAS Node Selector |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
| - CHOICE version               | R99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |
| - CHOICE CN type               | GSM-MAP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |
| - CHOICE Routing basis         | Local (P)TMSI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |
| - Routing parameter            | If the IE "CN domain identity" is equal to "CS domain", this bit string is set to bits b14 through b23 of the TMSI.<br>If the IE "CN domain identity" is equal to "PS domain", this bit string is set to bits b14 through b23 of the P-TMSI.<br>The TMSI/P-TMSI consists of 4 octets (32bits). This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant<br>The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI.<br>The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI. |         |
| - Entered parameter            | Not checked                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |

|                          |                                                                                |       |
|--------------------------|--------------------------------------------------------------------------------|-------|
| NAS message              | Set according to that indicated in specific message content for each test case |       |
| START                    | This IE is checked to see if it is present.                                    |       |
| Establishment cause      | This IE is checked to see if it is absent                                      | Rel-5 |
| Measured results on RACH | Not checked                                                                    |       |
| MBMS joined information  | This IE is checked to see if it is absent                                      | Rel-6 |

## Contents of LOGGING MEASUREMENT CONFIGURATION message: AM

| Information Element                    | Condition | Value/remark                                                                                                                                                      | Version |
|----------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                           |           |                                                                                                                                                                   | Rel-10  |
| RRC transaction identifier             |           | Arbitrarily selects an integer between 0 and 3                                                                                                                    | Rel-10  |
| Integrity check info                   |           |                                                                                                                                                                   | Rel-10  |
| - message authentication code          |           | SS calculates the value of MAC-I for this message and writes to this IE. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC message sequence number          |           | SS provides the value of this IE, from its internal counter.                                                                                                      |         |
| Logged Measurements Configuration Info | A1, A2    | Not present                                                                                                                                                       | Rel-10  |
| Logged ANR configuration Info          | A1, A2    |                                                                                                                                                                   | Rel-10  |
| - Logging Duration                     |           | 1 hour                                                                                                                                                            |         |
| - Intra-UTRA ANR                       |           |                                                                                                                                                                   |         |
| - CHOICE <i>Absolute Threshold</i>     | A1        | RSCP for ANR                                                                                                                                                      |         |
| - RSCP                                 |           | Not present (default -100 dBm)                                                                                                                                    |         |
| - CHOICE <i>Absolute Threshold</i>     | A2        | Ec/N0 for ANR                                                                                                                                                     |         |
| - Ec/N0                                |           | Not present (default -10 dB)                                                                                                                                      |         |
| - Logging Relative Threshold           |           | Not present                                                                                                                                                       |         |
| - Inter-RAT ANR for E-UTRA             |           | Not present                                                                                                                                                       |         |
| Indicator                              |           |                                                                                                                                                                   |         |
| - Inter-RAT ANR for GSM Indicator      |           | Not present                                                                                                                                                       |         |

| Condition | Explanation                                                                     | Version |
|-----------|---------------------------------------------------------------------------------|---------|
| A1        | Configuring of IE for ANR over UTRAN testing using RSCP for Absolute Threshold  | Rel-10  |
| A2        | Configuring of IE for ANR over UTRAN testing using Ec/N0 for Absolute Threshold | Rel-10  |

## Contents of MBMS ACCESS INFORMATION message: UM

| Information Element                | Value/remark                                                                                                                                                                                                      | Version |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message type                       |                                                                                                                                                                                                                   | Rel-6   |
| Service list                       | 1 entry in the list                                                                                                                                                                                               | Rel-6   |
| - MBMS short transmission ID       | Index to the MBMS transmission identity in the previous MBMS MODIFIED SERVICES INFORMATION or MBMS UNMODIFIED SERVICES INFORMATION corresponding to the service for which the current counting procedure applies. | Rel-6   |
| - Access probability factor – Idle | 0 (corresponding to the actual probability factor value 1)                                                                                                                                                        | Rel-6   |
| - Connected mode counting scope    |                                                                                                                                                                                                                   | Rel-6   |
| - URA_PCH                          | FALSE                                                                                                                                                                                                             | Rel-6   |
| - CELL_PCH                         | FALSE                                                                                                                                                                                                             | Rel-6   |
| - CELL_FACH                        | FALSE                                                                                                                                                                                                             | Rel-6   |

Contents of MBMS GENERAL INFORMATION message: UM

| Information Element                        | Value/remark                                                                                                                                        | Version |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message type                               |                                                                                                                                                     | Rel-6   |
| MBMS preferred frequency information       | Not Present                                                                                                                                         | Rel-6   |
| MBMS timers and counters                   |                                                                                                                                                     | Rel-6   |
| - T318                                     | 4000 ms                                                                                                                                             | Rel-6   |
| MICH configuration information             |                                                                                                                                                     | Rel-6   |
| - MICH Power offset                        | -5dB                                                                                                                                                | Rel-6   |
| - CHOICE <i>Mode</i>                       | FDD                                                                                                                                                 | Rel-6   |
| - Channelisation code                      | Reference to clause 5.5.1.4 "Downlink physical channels code allocation for MBMS test cases"                                                        | Rel-6   |
| - Number of NI per frame                   | 18                                                                                                                                                  | Rel-6   |
| - STTD indicator                           | FALSE                                                                                                                                               | Rel-6   |
| Cell group identity                        | '000000000001' ( cells with mid range UARFCN )<br>'000000000010' ( cells with low range UARFCN )<br>'000000000011' ( cells with high range UARFCN ) | Rel-6   |
| Default MSCH configuration information     | Not Present                                                                                                                                         | Rel-6   |
| Indicate changes in MBMS Selected Services | Not Present                                                                                                                                         | Rel-6   |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM

| Information Element                            | Value/remark          | Version |
|------------------------------------------------|-----------------------|---------|
| Message type                                   |                       | Rel-6   |
| RB information list                            | 2 entries in the list | Rel-6   |
| - RB identity                                  | 14                    | Rel-6   |
| - PDCP info                                    |                       |         |
| - Support for lossless SRNS relocation         | Not Present           |         |
| - PDCP PDU header                              | absent                |         |
| - Header compression information               | Not Present           |         |
| - RLC info                                     |                       |         |
| - DL UM RLC LI size                            | 7                     |         |
| - DL Duplication Avoidance and Reordering info | Not Present           |         |
| - RB identity                                  | 15                    | Rel-6   |
| - PDCP info                                    |                       |         |
| - Support for lossless SRNS relocation         | Not Present           |         |
| - PDCP PDU header                              | absent                |         |
| - Header compression information               | Not Present           |         |

| Information Element                            | Value/remark                                                                           | Version |
|------------------------------------------------|----------------------------------------------------------------------------------------|---------|
| - RLC info                                     |                                                                                        |         |
| - DL UM RLC LI size                            | 7                                                                                      |         |
| - DL Duplication Avoidance and Reordering info | Not Present                                                                            |         |
| TrCh information for each TrCh                 | 2 entries in the list                                                                  | Rel-6   |
| - Transport channel identity                   | 17                                                                                     | Rel-6   |
| - TFS                                          |                                                                                        |         |
| - CHOICE <i>Transport channel type</i>         | Common transport channels                                                              |         |
| - Dynamic Transport format information         |                                                                                        |         |
| - RLC Size                                     | Reference to clause 6.10 parameter set                                                 |         |
| - Number of TBs List                           | (This IE is repeated for TFI number.)                                                  |         |
| - Transmission Time Interval                   | Not Present                                                                            |         |
| - Number of Transport blocks                   | Reference to clause 6.10 parameter set                                                 |         |
| - CHOICE <i>Logical channel list</i>           | All                                                                                    |         |
| - Semi-static Transport Format information     |                                                                                        |         |
| - Transmission time interval                   | Reference to clause 6.10 parameter set                                                 |         |
| - Type of channel coding                       | Reference to clause 6.10 parameter set                                                 |         |
| - Coding Rate                                  | Reference to clause 6.10 parameter set                                                 |         |
| - Rate matching attribute                      | Reference to clause 6.10 parameter set                                                 |         |
| - CRC size                                     | Reference to clause 6.10 parameter set                                                 |         |
| - Transport channel identity                   | 23                                                                                     | Rel-6   |
| - TFS                                          |                                                                                        |         |
| - CHOICE <i>Transport channel type</i>         | Common transport channels                                                              |         |
| - Dynamic Transport format information         |                                                                                        |         |
| - RLC Size                                     | Reference to clause 6.10 parameter set                                                 |         |
| - Number of TBs List                           | (This IE is repeated for TFI number.)                                                  |         |
| - Transmission Time Interval                   | Not Present                                                                            |         |
| - Number of Transport blocks                   | Reference to clause 6.10 parameter set                                                 |         |
| - CHOICE <i>Logical channel list</i>           | All                                                                                    |         |
| - Semi-static Transport Format information     |                                                                                        |         |
| - Transmission time interval                   | Reference to clause 6.10 parameter set                                                 |         |
| - Type of channel coding                       | Reference to clause 6.10 parameter set                                                 |         |
| - Coding Rate                                  | Reference to clause 6.10 parameter set                                                 |         |
| - Rate matching attribute                      | Reference to clause 6.10 parameter set                                                 |         |
| - CRC size                                     | Reference to clause 6.10 parameter set                                                 |         |
| TrCh information for each CCTrCh               | 2 entries in the list                                                                  | Rel-6   |
| - CCTrCH identity                              | 1                                                                                      | Rel-6   |
| - TFCS                                         |                                                                                        |         |
| - CHOICE <i>TFCI signalling</i>                | Normal                                                                                 |         |
| - TFCI Field 1 information                     |                                                                                        |         |
| - CHOICE <i>TFCS representation</i>            | Complete reconfiguration                                                               |         |
| - TFCS complete reconfiguration information    |                                                                                        |         |
| - CHOICE CTFC Size                             | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. |         |
| - CTFC information                             | This IE is repeated for number of CTFCs in clause 6.10 "Parameter Set"                 |         |
| - CTFC                                         | Reference to clause 6.10 "Parameter Set"                                               |         |

| Information Element                         | Value/remark                                                                                 | Version |
|---------------------------------------------|----------------------------------------------------------------------------------------------|---------|
| - Power offset information                  | Not Present                                                                                  |         |
| - CCTrCH identity                           | 2                                                                                            | Rel-6   |
| - TFCS                                      |                                                                                              |         |
| - CHOICE <i>TFCI signalling</i>             | Normal                                                                                       |         |
| - TFCI Field 1 information                  |                                                                                              |         |
| - CHOICE <i>TFCS representation</i>         | Complete reconfiguration                                                                     |         |
| - TFCS complete reconfiguration information |                                                                                              |         |
| - CHOICE CTFC Size                          | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.       |         |
| - CTFC information                          | This IE is repeated for number of CTFCs in clause 6.10 "Parameter Set"                       |         |
| - CTFC                                      | Reference to clause 6.10 "Parameter Set"                                                     |         |
| - Power offset information                  | Not Present                                                                                  |         |
| PhyCh information                           | 2 entries in list                                                                            | Rel-6   |
| - PhyCh identity                            | 13                                                                                           | Rel-6   |
| - Secondary CCPCH info MBMS                 |                                                                                              |         |
| - CHOICE <i>mode</i>                        | FDD                                                                                          |         |
| - Secondary scrambling code                 | Not Present                                                                                  |         |
| - STTD indicator                            | FALSE                                                                                        |         |
| - Spreading factor                          | Reference to clause 6.10 "Parameter Set"                                                     |         |
| - Code number                               | Reference to clause 5.5.1.4 "Downlink physical channels code allocation for MBMS test cases" |         |
| - Timing Offset                             | Set to (Cell No. – 21) * 18 for MBMS Cell Nos. 21-28. (actual value = IE value * 256 chips)  |         |
| - PhyCh identity                            | 17                                                                                           | Rel-6   |
| - Secondary CCPCH info MBMS                 |                                                                                              |         |
| - CHOICE <i>mode</i>                        | FDD                                                                                          |         |
| - Secondary scrambling code                 | Not Present                                                                                  |         |
| - STTD indicator                            | FALSE                                                                                        |         |
| - Spreading factor                          | Reference to clause 6.10 "Parameter Set"                                                     |         |
| - Code number                               | Reference to clause 5.5.1.4 "Downlink physical channels code allocation for MBMS test cases" |         |
| - Timing Offset                             | Set to (Cell No. – 21) * 18 for MBMS Cell Nos. 21-28. (actual value = IE value * 256 chips)  |         |

Contents of MBMS CURRENT CELL P-T-M RB INFORMATION message: UM

| Information Element                    | Condition  | Value/remark                                                                                                                                                                                                                                                                           | Version |
|----------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message type                           | A1, A2, A3 |                                                                                                                                                                                                                                                                                        | Rel-6   |
| S-CCPCH list                           | A1         | Not Present                                                                                                                                                                                                                                                                            | Rel-6   |
| S-CCPCH list                           | A2         | Contains 1 S-CCPCH                                                                                                                                                                                                                                                                     | Rel-6   |
| S-CCPCH list                           | A3         | Contains 2 S-CCPCH                                                                                                                                                                                                                                                                     | Rel-6   |
| - S-CCPCH identity                     | A2, A3     | 1 if combining is used in the test (MBMS NEIGHBOURING CELL P-T-M RB INFORMATION is transmitted in the same modification period).<br>Not Present if combining is not used in the test (MBMS NEIGHBOURING CELL P-T-M RB INFORMATION is not transmitted in the same modification period). | Rel-6   |
| - Secondary CCPCH info                 |            | 13                                                                                                                                                                                                                                                                                     | Rel-6   |
| - MBMS Soft Combining Timing Offset    |            | Not Present                                                                                                                                                                                                                                                                            | Rel-6   |
| - TrCh information common for all TrCh |            | 1                                                                                                                                                                                                                                                                                      | Rel-6   |
| - TrCH information list                |            |                                                                                                                                                                                                                                                                                        | Rel-6   |
| - TrCh information                     |            | 17                                                                                                                                                                                                                                                                                     | Rel-6   |
| - RB information list                  |            |                                                                                                                                                                                                                                                                                        | Rel-6   |
| - RB information                       |            | 14                                                                                                                                                                                                                                                                                     | Rel-6   |
| - MBMS short transmission ID           |            | Refers to the index of the service in the list of services on the cell which is being provided on this RB                                                                                                                                                                              | Rel-6   |
| - MBMS logical channel identity        |            | 1                                                                                                                                                                                                                                                                                      | Rel-6   |
| - MSCH configuration information       |            | Not Present                                                                                                                                                                                                                                                                            | Rel-6   |
| - S-CCPCH identity                     | A3         | Not Present                                                                                                                                                                                                                                                                            | Rel-6   |
| - Secondary CCPCH info                 |            | 17                                                                                                                                                                                                                                                                                     | Rel-6   |
| - MBMS Soft Combining Timing Offset    |            | Not Present                                                                                                                                                                                                                                                                            | Rel-6   |
| - TrCh information common for all TrCh |            | 2                                                                                                                                                                                                                                                                                      | Rel-6   |
| - TrCH information list                |            |                                                                                                                                                                                                                                                                                        | Rel-6   |
| - TrCh information                     |            | 23                                                                                                                                                                                                                                                                                     | Rel-6   |
| - RB information list                  |            |                                                                                                                                                                                                                                                                                        | Rel-6   |
| - RB information                       |            | 15                                                                                                                                                                                                                                                                                     | Rel-6   |
| - MBMS short transmission ID           |            | Refers to the index of the service in the list of services on the cell which is being provided on this RB                                                                                                                                                                              | Rel-6   |
| - MBMS logical channel identity        |            | 2                                                                                                                                                                                                                                                                                      | Rel-6   |
| - MSCH configuration information       |            | Not Present                                                                                                                                                                                                                                                                            | Rel-6   |
| S-CCPCH in SIB type 5                  | A1, A2, A3 | Not Present                                                                                                                                                                                                                                                                            | Rel-6   |

| Condition | Explanation                     |
|-----------|---------------------------------|
| A1        | No services ongoing or starting |
| A2        | 1 service ongoing or starting   |
| A3        | 2 services ongoing or starting  |

## Contents of MBMS MODIFIED SERVICES INFORMATION message: UM

| Information Element                | Value/remark                                                                                                                     | Version |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------|
| Message type                       |                                                                                                                                  | Rel-6   |
| Modified services list             | 1 entry per modified service - maximum 12. If no services are modified in the current modification period this IE is Not Present | Rel-6   |
| - MBMS Transmission identity       |                                                                                                                                  | Rel-6   |
| - MBMS Service ID                  |                                                                                                                                  |         |
| - MBMS Service ID                  | Set to the value of the service ID being modified (e.g. '000001')                                                                | Rel-6   |
| - CHOICE PLMN identity             | SameAs-MIB                                                                                                                       | Rel-6   |
| - MBMS Session ID                  | '01'                                                                                                                             | Rel-6   |
| - MBMS required UE action          | Acquire PTM RB info                                                                                                              | Rel-6   |
| - MBMS preferred frequency         | Not Present                                                                                                                      | Rel-6   |
| - Continue MCCH reading            | FALSE                                                                                                                            | Rel-6   |
| MBMS re- acquire MCCH              | Not Present                                                                                                                      | Rel-6   |
| MBMS dynamic persistence level     | Not Present                                                                                                                      | Rel-6   |
| End of modified MCCH information   | Not Present                                                                                                                      | Rel-6   |
| MBMS number of neighbour cells     | 0                                                                                                                                | Rel-6   |
| MBMS all unmodified p-t-m services | Not Present                                                                                                                      | Rel-6   |
| MBMS p-t-m activation time         | Not Present                                                                                                                      | Rel-6   |

## Contents of MBMS NEIGHBOURING CELL P-T-M RB INFORMATION message: UM

| Information Element                       | Value/remark                                                                                                                                                              | Version |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message type                              |                                                                                                                                                                           | Rel-6   |
| Neighbouring cell identity                | The intra-frequency cell id of the cell of the MBMS neighbouring cell referred to in the test procedure, obtained from the IE 'Intra-frequency Cell Info list' in SIB 11. | Rel-6   |
| Neighbouring cell's S-CCPCH list          | 1 entry in the list                                                                                                                                                       | Rel-6   |
| - Secondary CCPCH info                    | Refers to the Physical channel identity being used for the service under test in the common RB info of the current cell                                                   | Rel-6   |
| - Secondary CCPCH Power Offset Difference | Not Present                                                                                                                                                               | Rel-6   |
| - L1 combining                            | Not Present                                                                                                                                                               | Rel-6   |
| - CHOICE L23 configuration                | SameAs Current cell                                                                                                                                                       | Rel-6   |
| - Current cell's S-CCPCH                  | 1 (same as the S-CCPCH identity in the MBMS CURRENT CELL P-T-M RB INFORMATION)                                                                                            | Rel-6   |
| - MSCH configuration information          | Not Present                                                                                                                                                               | Rel-6   |



## Contents of MBMS UNMODIFIED SERVICES INFORMATION message: UM

| Information Element          | Value/remark                                        | Version |
|------------------------------|-----------------------------------------------------|---------|
| Message type                 |                                                     | Rel-6   |
| Unmodified services list     | 12 services by default. See NOTE 1.                 | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000001'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000002'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000003'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000004'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000005'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000006'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000007'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000008'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000009'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |

| Information Element          | Value/remark                                        | Version |
|------------------------------|-----------------------------------------------------|---------|
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '00000A'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '00000B'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '00000C'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |

| Information Element       | Condition | Value/remark          | Explanation                                                        |
|---------------------------|-----------|-----------------------|--------------------------------------------------------------------|
| - MBMS Session ID         | A1        | Not Present           | Condition used when the session is currently not being transmitted |
| - MBMS required UE action |           | 'None'                |                                                                    |
| - MBMS Session ID         | A2        | '01'                  | Condition used when the session is currently ongoing               |
| - MBMS required UE action |           | 'Acquire PTM RB info' |                                                                    |

NOTE 1: Any service ID which is included in MBMS MODIFIED SERVICES INFORMATION in the current modification period shall be Not Present in the list of services in this message.

Contents of MEASUREMENT CONTROL message: AM

| Information Element                                 | Value/remark                                                                                                                                                       |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                        |                                                                                                                                                                    |
| RRC transaction identifier                          | Arbitrarily selects an unused integer between 0 to 3                                                                                                               |
| Integrity check info                                |                                                                                                                                                                    |
| - Message authentication code                       | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number                       | SS provides the value of this IE, from its internal counter.                                                                                                       |
| Measurement Identity                                | 1                                                                                                                                                                  |
| Measurement Command                                 | Setup                                                                                                                                                              |
| Measurement Reporting Mode                          |                                                                                                                                                                    |
| - Measurement Report Transfer Mode                  | Acknowledged mode RLC                                                                                                                                              |
| - Periodical Reporting/Event Trigger Reporting Mode | Periodical reporting                                                                                                                                               |
| Additional measurement list                         | Not Present                                                                                                                                                        |
| CHOICE Measurement type                             | Intra-frequency measurement                                                                                                                                        |
| - Intra-frequency measurement                       |                                                                                                                                                                    |
| - Intra-frequency cell info list                    |                                                                                                                                                                    |
| - CHOICE intra-frequency cell removal               | Not present                                                                                                                                                        |
| - New intra-frequency cell                          |                                                                                                                                                                    |
| - Intra-frequency cell-id                           | 1                                                                                                                                                                  |
| - Cell info                                         |                                                                                                                                                                    |
| - Cell individual offset                            | 0 (0dB)                                                                                                                                                            |
| - Reference time difference to cell                 | Not Present                                                                                                                                                        |
| - Read SFN number                                   | FALSE                                                                                                                                                              |
| - CHOICE mode                                       | FDD                                                                                                                                                                |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- Primary CPICH Tx power</li> <li>- TX Diversity indicator</li> <li>- Cells for measurement</li> <li>- CSG Intrafrequency cell info</li> <li>- Intra-frequency SI Acquisition</li> <li>- Intra-frequency measurement quantity</li> <li>- Intra-frequency reporting quantity</li> <li>- Reporting quantities for active set cells</li> <li>- Cell synchronization information reporting indicator</li> <li>- Cell Identity reporting indicator</li> <li>- CPICH Ec/N0 reporting indicator</li> <li>- CPICH RSCP reporting indicator</li> <li>- Pathloss reporting indicator</li> <li>- Reporting quantities for monitored set cells</li> <li>- Cell synchronization information reporting indicator</li> <li>- Cell Identity reporting indicator</li> <li>- CPICH Ec/N0 reporting indicator</li> <li>- CPICH RSCP reporting indicator</li> <li>- Pathloss reporting indicator</li> <li>- Reporting quantities for detected set cells</li> <li>- Reporting cell status</li> <li>- CHOICE reported cell</li> <li>- Maximum number of reported cells</li> <li>- Measurement validity</li> <li>- CHOICE report criteria</li> <li>- Amount of reporting</li> <li>- Reporting interval</li> </ul> | <p>Different from the Default setting in clause 6.1 (FDD)</p> <p>Not Present</p> <p>FALSE</p> <p>Not present</p> <p>Not present</p> <p>Not present</p> <p>Not Present</p> <p>FALSE</p> <p>TRUE</p> <p>FALSE</p> <p>TRUE</p> <p>FALSE</p> <p>FALSE</p> <p>FALSE</p> <p>TRUE</p> <p>FALSE</p> <p>TRUE</p> <p>FALSE</p> <p>Not Present</p> <p>Report cell within active set and/or monitored cells on used frequency</p> <p>2</p> <p>Not Present</p> <p>Periodic reporting criteria</p> <p>Infinity</p> <p>64 s</p> <p>Not Present</p> |
| DPCH Compressed mode status info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Contents of MEASUREMENT CONTROL FAILURE message: AM

| Information Element                                                             | Value/remark                                                                                                                                                                                         |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                                    |                                                                                                                                                                                                      |
| RRC transaction identifier                                                      | Checked to see if it's set to the identical value for the same IE in the downlink MEASUREMENT CONTROL message                                                                                        |
| Integrity check info                                                            |                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>- Message authentication code</li> </ul> | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| <ul style="list-style-type: none"> <li>- RRC Message sequence number</li> </ul> | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                                                   | See the test content                                                                                                                                                                                 |

## Contents of MEASUREMENT REPORT message: AM

| Information Element                                                                                                                                                                        | Value/remark                                                                                                                                                                                         | Version |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                                                                                                                                                               |                                                                                                                                                                                                      |         |
| Integrity check info                                                                                                                                                                       |                                                                                                                                                                                                      |         |
| <ul style="list-style-type: none"> <li>- Message authentication code</li> </ul>                                                                                                            | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| <ul style="list-style-type: none"> <li>- RRC Message sequence number</li> </ul>                                                                                                            | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Measurement identity                                                                                                                                                                       | 1                                                                                                                                                                                                    |         |
| Measured Results                                                                                                                                                                           |                                                                                                                                                                                                      |         |
| <ul style="list-style-type: none"> <li>- Intra-frequency measured results</li> <li>- Cell measured results</li> <li>- Cell Identity</li> <li>- Cell synchronization information</li> </ul> | <p>Not present</p> <p>Checked that this IE is absent</p>                                                                                                                                             |         |

|                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                     |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <ul style="list-style-type: none"> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- CPICH Ec/NO</li> <li>- CPICH RSCP</li> <li>- Pathloss</li> </ul> Measured results on RACH<br>Additional measured results<br>Event results | Different from the Default setting in clause 6.1 (FDD)<br>Checked that this IE is absent<br>Checked that this IE is present<br>Checked that this IE is absent<br>Checked that this IE is absent<br>Checked that this IE is absent<br>Checked that this IE is absent |       |
| GSM OTD reference cell                                                                                                                                                                                                                              | Checked that this IE is absent                                                                                                                                                                                                                                      | Rel-4 |
| CSG Proximity Indication                                                                                                                                                                                                                            | FFS                                                                                                                                                                                                                                                                 | REL-9 |
| Inter-RAT cell info indication                                                                                                                                                                                                                      | Checked that this IE is absent                                                                                                                                                                                                                                      | Rel-5 |

## Contents of PAGING TYPE 1 message: TM (Speech in CS)

| Information Element                                                                                                                                                                                                                                                                            | Value/remark                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type<br>Paging record list<br>- Paging record <ul style="list-style-type: none"> <li>- CHOICE Used paging identity</li> <li>- Paging cause</li> <li>- CN domain identity</li> <li>- CHOICE UE identity</li> <li>- IMSI (GSM-MAP)</li> </ul> BCCH modification info<br>ETWS information | CN identity<br>Terminating Conversational Call<br>CS domain<br><br>Set to the same octet string as in the IMSI stored in the USIM card<br>Not Present<br>Not Present |

## Contents of PAGING TYPE 1 message: TM (The others of speech in CS)

| Information Element                                                                                                                                                                                                                                                                            | Value/remark                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type<br>Paging record list<br>- Paging record <ul style="list-style-type: none"> <li>- CHOICE Used paging identity</li> <li>- Paging cause</li> <li>- CN domain identity</li> <li>- CHOICE UE identity</li> <li>- IMSI (GSM-MAP)</li> </ul> BCCH modification info<br>ETWS information | CN identity<br>Terminating Streaming Call<br>CS domain<br><br>Set to the same octet string as in the IMSI stored in the USIM card<br>Not Present<br>Not Present |

## Contents of PAGING TYPE 1 message: TM (Packet in PS)

| Information Element                                                                                                                                                                                                                                                                    | Value/remark                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type<br>Paging record list<br>- Paging record <ul style="list-style-type: none"> <li>- CHOICE Used paging identity</li> <li>- Paging cause</li> <li>- CN domain identity</li> <li>- CHOICE UE identity</li> <li>- P-TMSI</li> </ul> BCCH modification info<br>ETWS information | CN identity<br>Terminating Interactive Call<br>PS domain<br><br>Use P-TMSI allocated by SS at initial attach.<br>Not Present<br>Not Present |

## Contents of PAGING TYPE 1 message: TM (SMS in CS)

| Information Element                                                                                                                                                                                                       | Value/remark                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Message Type<br>Paging record list<br>- Paging record <ul style="list-style-type: none"> <li>- CHOICE Used paging identity</li> <li>- Paging cause</li> <li>- CN domain identity</li> <li>- CHOICE UE identity</li> </ul> | CN identity<br>Terminating Low Priority Signalling<br>CS domain |

|                        |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| - IMSI (GSM-MAP)       | Set to the same octet string as in the IMSI stored in the TEST USIM card |
| BCCH modification info | Not Present                                                              |
| ETWS information       | Not Present                                                              |

Contents of PAGING TYPE 1 message: TM (SMS in PS)

| Information Element           | Value/remark                                                             |
|-------------------------------|--------------------------------------------------------------------------|
| Message Type                  |                                                                          |
| Paging record list            |                                                                          |
| - Paging record               |                                                                          |
| - CHOICE Used paging identity | CN identity                                                              |
| - Paging cause                | Terminating Low Priority Signalling                                      |
| - CN domain identity          | PS domain                                                                |
| - CHOICE UE identity          |                                                                          |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the TEST USIM card |
| BCCH modification info        | Not Present                                                              |
| ETWS information              | Not Present                                                              |

Contents of PAGING TYPE 2 message: AM (Speech in CS)

| Information Element           | Value/remark                                                                                                                                                       |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                    |
| RRC transaction identifier    | Arbitrarily selects an integer between 0 and 3                                                                                                                     |
| Integrity check info          |                                                                                                                                                                    |
| - message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number | SS provides the value of this IE, from its internal counter.                                                                                                       |
| Paging cause                  | Terminating Conversational Call                                                                                                                                    |
| CN domain identity            | CS domain                                                                                                                                                          |
| Paging record type identifier | Select the same type as in the IE "Initial UE Identity" in RRC CONNECTION REQUEST" message.                                                                        |

Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM

| Information Element            | Condition                               | Value/remark                                                                                                                                                       | Version            |
|--------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Message Type                   | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 |                                                                                                                                                                    |                    |
| RRC transaction identifier     |                                         | Arbitrarily selects an integer between 0 and 3                                                                                                                     |                    |
| Integrity check info           |                                         |                                                                                                                                                                    |                    |
| - message authentication code  |                                         | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                    |
| - RRC message sequence number  |                                         | SS provides the value of this IE, from its internal counter.                                                                                                       |                    |
| Integrity protection mode info |                                         | Not Present                                                                                                                                                        |                    |
| Ciphering mode info            |                                         | Not Present                                                                                                                                                        |                    |
| Activation time                | A1, A2, A3                              | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |                    |
| Activation time                | A4, A5, A6, A7, A8, A9, A10             | Not Present                                                                                                                                                        |                    |
| Delay restriction flag         | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                                                                        | Rel-6              |
| New U-RNTI                     |                                         | Not Present                                                                                                                                                        |                    |
| New C-RNTI                     | A1, A2, A3, A4, A7, A8, A9, A10         | Not Present                                                                                                                                                        |                    |
| New C-RNTI                     | A5, A6                                  | '1010 1010 1010 1010'                                                                                                                                              |                    |
| New DSCH-RNTI                  | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                                                                        | R99 and Rel-4 only |
| New H-RNTI                     | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                                                                        | Rel-5              |
| New Primary E-RNTI             |                                         | Not Present                                                                                                                                                        | Rel-6              |
| New Secondary E-RNTI           |                                         | Not Present                                                                                                                                                        | Rel-6              |
| RRC State indicator            | A1, A2, A3, A4                          | CELL_DCH                                                                                                                                                           |                    |

| Information Element                                              | Condition                               | Value/remark                                                                                                                                  | Version            |
|------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| RRC State indicator                                              | A5, A6                                  | CELL_FACH                                                                                                                                     | Rel-7              |
| RRC State indicator                                              | A7, A8                                  | URA_PCH                                                                                                                                       |                    |
| RRC State indicator                                              | A9, A10                                 | CELL_PCH                                                                                                                                      |                    |
| UE Mobility State Indicator                                      |                                         | Not Present                                                                                                                                   |                    |
| UTRAN DRX cycle length coefficient                               | A1, A2, A3, A4, A5, A6                  | Not Present                                                                                                                                   | Rel-7              |
| UTRAN DRX cycle length coefficient                               | A7, A8, A9, A10                         | 3                                                                                                                                             |                    |
| CN information info                                              |                                         | Not Present                                                                                                                                   |                    |
| URA identity                                                     |                                         | Not Present                                                                                                                                   |                    |
| RNC support for change of UE capability                          |                                         | Not Present                                                                                                                                   |                    |
| Reconfiguration in response to requested change of UE capability |                                         | Not Present                                                                                                                                   |                    |
| Downlink counter synchronization info                            |                                         | Not Present                                                                                                                                   |                    |
| Frequency info                                                   | A1, A2, A3, A4, A5                      | Not present                                                                                                                                   |                    |
| - UARFCN uplink (Nu)                                             |                                         | Absence of this IE is equivalent to applying the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] |                    |
| - UARFCN downlink (Nd)                                           |                                         | Reference to clause 5.1 Test frequencies                                                                                                      |                    |
| Frequency info                                                   | A6, A7, A8, A9, A10                     | Not Present                                                                                                                                   | Rel-7              |
| DTX-DRX timing information                                       |                                         | Not Present                                                                                                                                   |                    |
| DTX-DRX Information                                              |                                         | Not Present                                                                                                                                   |                    |
| HS-SCCH less Information                                         |                                         | Not Present                                                                                                                                   |                    |
| MIMO parameters                                                  |                                         | Not Present                                                                                                                                   | Rel-7              |
| HARQ Info                                                        |                                         | Not Present                                                                                                                                   | Rel-7              |
| Maximum allowed UL TX power                                      |                                         | 33dBm                                                                                                                                         | Rel-5              |
| CHOICE <i>channel requirement</i>                                | A5, A6, A7, A8, A9, A10                 | Not Present                                                                                                                                   |                    |
| CHOICE <i>channel requirement</i>                                | A1, A2, A3, A4                          | Uplink DPCH info                                                                                                                              |                    |
| - Uplink DPCH power control info                                 |                                         |                                                                                                                                               |                    |
| - DPCCH power offset                                             |                                         | -40 (-80dB)                                                                                                                                   | Rel-5              |
| - PC Preamble                                                    |                                         | 1 frame                                                                                                                                       |                    |
| - SRB delay                                                      |                                         | 7 frames                                                                                                                                      |                    |
| - Power Control Algorithm                                        |                                         | Algorithm1                                                                                                                                    |                    |
| - TPC step size                                                  |                                         | 0 (1dB)                                                                                                                                       | Rel-6              |
| - $\Delta_{ACK}$                                                 |                                         | Not Present                                                                                                                                   |                    |
| - $\Delta_{NACK}$                                                |                                         | Not Present                                                                                                                                   |                    |
| - Ack-Nack repetition factor                                     |                                         | Not Present                                                                                                                                   |                    |
| - HARQ_preamble_mode                                             |                                         | 0                                                                                                                                             | Rel-7              |
| - Scrambling code type                                           |                                         | Long                                                                                                                                          |                    |
| - Scrambling code number                                         |                                         | 0 (0 to 16777215)                                                                                                                             |                    |
| - Number of DPDCH                                                |                                         | Not Present(1)                                                                                                                                |                    |
| - spreading factor                                               |                                         | Reference to clause 6.10 Parameter Set                                                                                                        | Rel-7              |
| - TFCI existence                                                 |                                         | Reference to clause 6.10 Parameter Set                                                                                                        |                    |
| - Number of FBI bit                                              |                                         | Reference to clause 6.10 Parameter Set                                                                                                        |                    |
| - Number of TPC bits                                             |                                         | Not Present                                                                                                                                   |                    |
| - Puncturing Limit                                               |                                         | Reference to clause 6.10 Parameter Set                                                                                                        | Rel-6              |
| E-DCH Info                                                       |                                         | Not Present                                                                                                                                   |                    |
| CHOICE Mode                                                      | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | FDD                                                                                                                                           | R99 and Rel-4 only |
| - Downlink PDSCH information                                     |                                         | Not Present                                                                                                                                   |                    |
| Downlink HS-PDSCH Information                                    | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                                                   |                    |
| Downlink information common for all radio links                  | A1, A2, A3                              |                                                                                                                                               |                    |
| - Downlink DPCH info common for all RL                           |                                         |                                                                                                                                               | Rel-5              |
| - Timing indicator                                               |                                         | Maintain                                                                                                                                      |                    |
| - CFN-targetSFN frame offset                                     |                                         | Not Present                                                                                                                                   |                    |
| - Downlink DPCH power control information                        |                                         |                                                                                                                                               |                    |
| - DPC mode                                                       |                                         | 0 (single)                                                                                                                                    |                    |
| - CHOICE mode                                                    |                                         | FDD                                                                                                                                           |                    |

| Information Element                                                                                                                                       | Condition               | Value/remark                                                                                                   | Version            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------|--------------------|
| <ul style="list-style-type: none"> <li>- Power offset <math>P_{\text{Pilot-DPDCH}}</math></li> <li>- DL rate matching restriction</li> </ul>              |                         | 0                                                                                                              |                    |
| information                                                                                                                                               |                         | Not Present                                                                                                    |                    |
| <ul style="list-style-type: none"> <li>- Spreading factor</li> <li>- Fixed or Flexible Position</li> <li>- TFCI existence</li> <li>- CHOICE SF</li> </ul> |                         | Reference to clause 6.10 Parameter Set                                                                         |                    |
| - DPCH compressed mode info                                                                                                                               |                         | Reference to clause 6.10 Parameter Set                                                                         |                    |
| - TX Diversity mode                                                                                                                                       |                         | Reference to clause 6.10 Parameter Set                                                                         |                    |
| - SSdT information                                                                                                                                        |                         | Not Present                                                                                                    |                    |
|                                                                                                                                                           |                         | None                                                                                                           |                    |
|                                                                                                                                                           |                         | Not Present                                                                                                    | R99 and Rel-4 only |
| - Default DPCH Offset Value                                                                                                                               |                         | Not Present                                                                                                    |                    |
| - MAC-hs reset indicator                                                                                                                                  |                         | Not Present                                                                                                    | Rel-5              |
| Downlink information common for all radio links                                                                                                           | A4                      |                                                                                                                |                    |
| RL                                                                                                                                                        |                         |                                                                                                                |                    |
| - Downlink DPCH info common for all                                                                                                                       |                         |                                                                                                                |                    |
| information                                                                                                                                               |                         | Initialize                                                                                                     |                    |
| - Timing indicator                                                                                                                                        |                         | Not Present                                                                                                    |                    |
| - CFN-targetSFN frame offset                                                                                                                              |                         |                                                                                                                |                    |
| - Downlink DPCH power control                                                                                                                             |                         |                                                                                                                |                    |
| information                                                                                                                                               |                         |                                                                                                                |                    |
| - DPC mode                                                                                                                                                |                         | 0 (single)                                                                                                     |                    |
| - CHOICE mode                                                                                                                                             |                         | FDD                                                                                                            |                    |
| - Power offset $P_{\text{Pilot-DPDCH}}$                                                                                                                   |                         | 0                                                                                                              |                    |
| - DL rate matching restriction                                                                                                                            |                         | Not Present                                                                                                    |                    |
| information                                                                                                                                               |                         |                                                                                                                |                    |
| - Spreading factor                                                                                                                                        |                         | Reference to clause 6.10 Parameter Set                                                                         |                    |
| - Fixed or Flexible Position                                                                                                                              |                         | Reference to clause 6.10 Parameter Set                                                                         |                    |
| - TFCI existence                                                                                                                                          |                         | Reference to clause 6.10 Parameter Set                                                                         |                    |
| - CHOICE SF                                                                                                                                               |                         | Reference to clause 6.10 Parameter Set                                                                         |                    |
| - DPCH compressed mode info                                                                                                                               |                         | Not Present                                                                                                    |                    |
| - TX Diversity mode                                                                                                                                       |                         | None                                                                                                           |                    |
| - SSdT information                                                                                                                                        |                         | Not Present                                                                                                    | R99 and Rel-4 only |
|                                                                                                                                                           |                         | Arbitrary set to value 0..306688 by step of 512                                                                |                    |
| - Default DPCH Offset Value                                                                                                                               |                         | Not Present                                                                                                    | Rel-5              |
| - MAC-hs reset indicator                                                                                                                                  |                         | Not Present                                                                                                    |                    |
| Downlink information common for all radio links                                                                                                           | A5, A6, A7, A8, A9, A10 | Not Present                                                                                                    |                    |
| Downlink information for each radio links                                                                                                                 | A1, A2, A3              |                                                                                                                |                    |
| - Choice mode                                                                                                                                             |                         | FDD                                                                                                            |                    |
| - Primary CPICH info                                                                                                                                      |                         |                                                                                                                |                    |
| - Primary scrambling code                                                                                                                                 |                         | Ref. to the Default setting in clause 6.1 (FDD)                                                                |                    |
| - PDSCH with SHO DCH info                                                                                                                                 |                         | Not Present                                                                                                    | R99 and Rel-4 only |
| - PDSCH code mapping                                                                                                                                      |                         | Not Present                                                                                                    | R99 and Rel-4 only |
| - Serving HS-DSCH radio link                                                                                                                              |                         | FALSE                                                                                                          | Rel-5              |
| indicator                                                                                                                                                 |                         |                                                                                                                |                    |
| - Serving E-DCH radio link indicator                                                                                                                      |                         | FALSE                                                                                                          | Rel-6              |
| - Downlink DPCH info for each RL                                                                                                                          |                         |                                                                                                                |                    |
| - CHOICE mode                                                                                                                                             |                         | FDD                                                                                                            |                    |
| - Primary CPICH usage for channel                                                                                                                         |                         | Primary CPICH may be used                                                                                      |                    |
| estimation                                                                                                                                                |                         |                                                                                                                |                    |
| - DPCH frame offset                                                                                                                                       |                         | Set to value : Default DPCH Offset Value (as currently stored in SS) mod 38400                                 |                    |
|                                                                                                                                                           |                         | Not Present                                                                                                    |                    |
| - Secondary CPICH info                                                                                                                                    |                         | 5                                                                                                              |                    |
| - DL channelisation code                                                                                                                                  |                         | Reference to clause 6.10 Parameter Set                                                                         |                    |
| - Secondary scrambling code                                                                                                                               |                         | 0                                                                                                              |                    |
| - Spreading factor                                                                                                                                        |                         | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable |                    |
| - Code number                                                                                                                                             |                         | TGPS_IDENTITY or included in the message                                                                       |                    |
| - Scrambling code change                                                                                                                                  |                         |                                                                                                                |                    |

| Information Element                          | Condition | Value/remark                                                                                                                                                                                                                                         | Version            |
|----------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|                                              |           | including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2")                                                                                                                                                         |                    |
| - TPC combination index                      |           | Set to value Default2: OMIT (otherwise) 0                                                                                                                                                                                                            |                    |
| - SSDT Cell Identity                         |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only |
| - Closed loop timing adjustment mode         |           | Not Present                                                                                                                                                                                                                                          |                    |
| - E-AGCH Info                                |           | Not Present                                                                                                                                                                                                                                          | Rel-6              |
| - E-HICH Information                         |           | Not Present                                                                                                                                                                                                                                          | Rel-6              |
| - E-RGCH Information                         |           | Not Present                                                                                                                                                                                                                                          | Rel-6              |
| - SCCPCH information for FACH                |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only |
| Downlink information for each radio links    | A4        |                                                                                                                                                                                                                                                      |                    |
| - Choice mode                                |           | FDD                                                                                                                                                                                                                                                  |                    |
| - Primary CPICH info                         |           | Ref. to the Default setting in clause 6.1 (FDD)                                                                                                                                                                                                      |                    |
| - Primary scrambling code                    |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only |
| - PDSCH with SHO DCH info                    |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only |
| - PDSCH code mapping                         |           | Not Present                                                                                                                                                                                                                                          | Rel-5              |
| - Serving HS-DSCH radio link indicator       |           | FALSE                                                                                                                                                                                                                                                | Rel-6              |
| - Serving E-DCH radio link indicator         |           | FALSE                                                                                                                                                                                                                                                |                    |
| - Downlink DPCH info for each RL             |           | FDD                                                                                                                                                                                                                                                  |                    |
| - CHOICE mode                                |           | Primary CPICH may be used                                                                                                                                                                                                                            |                    |
| - Primary CPICH usage for channel estimation |           | Set to value : Default DPCH Offset Value mod 38 400                                                                                                                                                                                                  |                    |
| - DPCH frame offset                          |           | Not Present                                                                                                                                                                                                                                          |                    |
| - Secondary CPICH info                       |           | 5                                                                                                                                                                                                                                                    |                    |
| - DL channelisation code                     |           | Reference to clause 6.10 Parameter Set 0                                                                                                                                                                                                             |                    |
| - Secondary scrambling code                  |           | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") |                    |
| - Spreading factor                           |           | Set to value Default2: OMIT (otherwise) 0                                                                                                                                                                                                            |                    |
| - Code number                                |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only |
| - Scrambling code change                     |           | Not Present                                                                                                                                                                                                                                          |                    |
| - TPC combination index                      |           | Set to value Default2: OMIT (otherwise) 0                                                                                                                                                                                                            |                    |
| - SSDT Cell Identity                         |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only |
| - Closed loop timing adjustment mode         |           | Not Present                                                                                                                                                                                                                                          |                    |
| - E-AGCH Info                                |           | Not Present                                                                                                                                                                                                                                          | Rel-6              |
| - E-HICH Information                         |           | Not Present                                                                                                                                                                                                                                          | Rel-6              |
| - E-RGCH Information                         |           | Not Present                                                                                                                                                                                                                                          | Rel-6              |
| - SCCPCH information for FACH                |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only |
| Downlink information for each radio link     | A5        |                                                                                                                                                                                                                                                      |                    |
| - Choice mode                                |           | FDD                                                                                                                                                                                                                                                  |                    |
| - Primary CPICH info                         |           | Ref. to the Default setting in clause 6.1 (FDD)                                                                                                                                                                                                      |                    |
| - Primary scrambling code                    |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only |
| - PDSCH with SHO DCH info                    |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only |
| - PDSCH code mapping                         |           | Not Present                                                                                                                                                                                                                                          | Rel-5              |
| - Serving HS-DSCH radio link indicator       |           | FALSE                                                                                                                                                                                                                                                | Rel-6              |
| - Serving E-DCH radio link indicator         |           | FALSE                                                                                                                                                                                                                                                |                    |



| Information Element                                                                                                                | Condition                               | Value/remark                                                            | Version                                       |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------|
| - Downlink DPCH info for each RL<br>- E-AGCH Info<br>- E-HICH Information<br>- E-RGCH Information<br>- SCCPCH Information for FACH |                                         | Not Present<br>Not Present<br>Not Present<br>Not Present<br>Not Present | Rel-6<br>Rel-6<br>Rel-6<br>R99 and Rel-4 only |
| - Downlink information for each radio link                                                                                         | A6, A7, A8, A9, A10                     | Not Present                                                             |                                               |
| MBMS PL Service Restriction Information                                                                                            | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                             | Rel-6                                         |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |
| A7        | This IE need for "Packet to URA_PCH from CELL_FACH in PS"   |
| A8        | This IE need for "Packet to URA_PCH from CELL_DCH in PS"    |
| A9        | This IE need for "Packet to CELL_PCH from CELL_FACH in PS"  |
| A10       | This IE need for "Packet to CELL_PCH from CELL_DCH in PS"   |

## Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                         | Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message                                                                                |
| Integrity check info                               |                                                                                                                                                                                                      |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |
| CHOICE mode                                        | FDD                                                                                                                                                                                                  |
| Deferred measurement control reading               | Not present for Rel-7 or later, otherwise Not checked                                                                                                                                                |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |
| Uplink counter synchronization info                | Not present                                                                                                                                                                                          |

## Contents of PHYSICAL CHANNEL RECONFIGURATION FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identifier    | Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message.                                                                              |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Checked to see if it meets test requirement                                                                                                                                                          |

## Contents of RADIO BEARER SETUP message: AM or UM

| Information Element                                   | Condition                                                                                                                                                                                                                                                                                      | Value/remark                                                                                                                                                                                                                    | Version                                                                                             | Index                                                                                         |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Message Type                                          | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A23, A24, A28a, A25, A25a, A25b, A26, A27, A28, A29, A30, A25c, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 |                                                                                                                                                                                                                                 | Rel-5<br>Rel-6<br><br>Rel-7<br><br><br>Rel-7<br>Rel-8<br>Rel-8<br><br>Rel-9<br>Rel-10<br><br>Rel-11 | RBS-003<br><br>RBS-004<br>RBS-005<br><br>RBS-006<br><br><br>RBS-007<br>RBS-008<br><br>RBS-009 |
| RRC transaction identifier                            |                                                                                                                                                                                                                                                                                                | Arbitrarily selects an integer between 0 and 3                                                                                                                                                                                  |                                                                                                     | RBS-010                                                                                       |
| Integrity check info<br>- message authentication code |                                                                                                                                                                                                                                                                                                | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. SS provides the value of this IE, from its internal counter. |                                                                                                     | RBS-011<br>RBS-012                                                                            |
| - RRC message sequence number                         |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                 |                                                                                                     | RBS-013                                                                                       |
| Integrity protection mode info                        |                                                                                                                                                                                                                                                                                                | Not Present                                                                                                                                                                                                                     |                                                                                                     | RBS-014                                                                                       |
| Ciphering mode info                                   |                                                                                                                                                                                                                                                                                                | Not Present                                                                                                                                                                                                                     |                                                                                                     | RBS-015                                                                                       |
| Sr-vcc-Info                                           |                                                                                                                                                                                                                                                                                                | Not Present                                                                                                                                                                                                                     |                                                                                                     |                                                                                               |
| Activation time                                       | A1, A2, A3, A11, A9, A12, A13, A14, A15, A16, A17, A17a, A17b, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A25c, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45                                         | (256+CFN-(CFN MOD 8 + 8)) MOD 256                                                                                                                                                                                               | Rel-5<br>Rel-6<br><br>Rel-7<br><br><br>Rel-7<br>Rel-8<br>Rel-8<br><br>Rel-9<br>Rel-10<br><br>Rel-11 | RBS-016<br>RBS-017<br>RBS-018<br><br>RBS-019<br><br><br>RBS-020<br>RBS-021<br><br>RBS-021b    |
| Activation time                                       | A4, A5, A6, A7, A8, A10, A24, A29, A30                                                                                                                                                                                                                                                         | Not Present                                                                                                                                                                                                                     | Rel-5<br>Rel-8                                                                                      | RBS-022<br>RBS-023<br>RBS-024                                                                 |
| New U-RNTI                                            | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A24, A23, A28a                                                                                                                            | Not Present                                                                                                                                                                                                                     | Rel-5<br>Rel-6<br><br>Rel-7<br><br><br>Rel-7<br>Rel-8                                               | RBS-026<br><br>RBS-027<br>RBS-028<br><br>RBS-029<br><br><br>RBS-030                           |

| Information Element | Condition                                                                                                                                                                                                                                                                                    | Value/remark          | Version                                                                                                 | Index                                                                                             |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|                     | , A25, A25a, A25b, A26, A27, A27a, A28, A29, A30, A25c, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45                                                                                                                                                            |                       | Rel-8<br><br>Rel-9<br>Rel-10<br><br>Rel-11                                                              | RBS-031<br><br>RBS-032                                                                            |
| New C-RNTI          | A1, A2, A3, A4, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A24, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A29, A30, A25c, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | Not Present           | Rel-5<br>Rel-6<br><br>Rel-7<br><br><br><br>Rel-7<br>Rel-8<br>Rel-8<br><br>Rel-9<br>Rel-10<br><br>Rel-11 | RBS-033<br><br>RBS-034<br>RBS-035<br><br>RBS-036<br><br><br><br>RBS-037<br>RBS-038<br><br>RBS-039 |
| New C-RNTI          | A5, A6                                                                                                                                                                                                                                                                                       | '1010 1010 1010 1010' |                                                                                                         | RBS-040                                                                                           |
| New DSCH-RNTI       | A1, A2, A3, A4, A5, A6, A7, A8, A11                                                                                                                                                                                                                                                          | Not Present           | R99 and Rel-4 only                                                                                      | RBS-041                                                                                           |
| New H-RNTI          | A1, A2, A3, A4, A5, A6, A7, A8, A11                                                                                                                                                                                                                                                          | Not Present           | Rel-5                                                                                                   | RBS-042                                                                                           |
| New H-RNTI          | A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A24, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A25c, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45                              | '1010 1010 1010 1010' | Rel-5<br>Rel-6<br><br>Rel-7<br><br><br><br>Rel-7<br>Rel-8<br>Rel-8<br><br>Rel-9<br>Rel-10<br><br>Rel-11 | RBS-045<br>RBS-046<br><br>RBS-047<br><br><br><br>RBS-048<br>RBS-049<br><br>RBS-049b               |
| New Primary E-RNTI  | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A17, A17a, A18, A24, A25a, A28                                                                                                                                                                                                                 | Not Present           | Rel-6<br><br>Rel-7<br><br>Rel-8                                                                         | RBS-050<br><br>RBS-051<br><br>RBS-052                                                             |
| New Primary E-RNTI  | A12, A13, A14, A15, A16, A17b, A17c, A17d, A17e, A17f, A19, A19a, A19b, A20, A21, A22, A23, A28a, A25, A25b, A26, A27, A27a, A29, A30                                                                                                                                                        | '1010 1010 1010 1010' | Rel-6<br><br>Rel-7<br><br>Rel-7<br>Rel-8<br>Rel-8                                                       | RBS-054<br><br>RBS-055<br><br>RBS-056<br>RBS-057                                                  |

| Information Element                | Condition                                                                                                                                                                                                                                                                                                                                                            | Value/remark | Version                                                                                             | Index                                                                                         |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                                    | A25c, A31, A32<br>, A33, A34, A35,<br>A36, A37<br>A38, A39, A40, A41,<br>A42, A43, A44, A45                                                                                                                                                                                                                                                                          |              | Rel-9<br>Rel-10<br><br>Rel-11                                                                       | RBS-057b                                                                                      |
| New Secondary E-RNTI               | A1, A2, A3, A4, A5,<br>A6, A7, A8, A9, A10,<br>A11, A12, A13, A14,<br>A15, A16<br>, A17, A17a, A17b,<br>A17c, A17d, A17e,<br>A17f, A18, A19,<br>A19a, A19b, A20,<br>A21, A22, A24<br>, A23, A28a<br><br>, A25, A25a, A25b,<br>A26, A27, A27a,<br>A28, A29, A30<br>, A31, A32<br>, A33, A34, A35,<br>A36, A37<br>A38, A39, A40, A41,<br>A42, A43, A44, A45            | Not Present  | Rel-6<br><br><br>Rel-7<br><br><br>Rel-7<br>Rel-8<br>Rel-8<br><br>Rel-9<br>Rel-10<br><br>Rel-11      | RBS-058<br><br><br>RBS-059<br><br><br>RBS-060<br>RBS-061<br><br>RBS-062                       |
| RRC State indicator                | A1, A2, A3, A4, A7,<br>A8, A11<br>, A9, A10<br>, A12, A13, A14,<br>A15, A16<br>, A17, A17a, A17b,<br>A17c, A17d, A17e,<br>A17f, A18, A19,<br>A19a, A19b, A20,<br>A21, A22<br>, A23, A28a<br><br>, A25, A25a, A25b,<br>A26, A27, A27a,<br>A28, A30<br>, A25c, A31, A32<br>, A33, A34, A35,<br>A36, A37<br>A38, A39, A40, A41,<br>A42, A43, A44, A45                   | CELL_DCH     | Rel-5<br>Rel-6<br><br>Rel-7<br><br><br>Rel-7<br>Rel-8<br>Rel-8<br><br>Rel-9<br>Rel-10<br><br>Rel-11 | RBS-063<br><br>RBS-064<br>RBS-065<br><br>RBS-066<br><br><br>RBS-067<br>RBS-068<br><br>RBS-069 |
| RRC State indicator                | A5, A6,<br>A24<br>A29                                                                                                                                                                                                                                                                                                                                                | CELL_FACH    | Rel-7                                                                                               | RBS-070<br>RBS-071<br>RBS-072                                                                 |
| UTRAN DRX cycle length coefficient | A1, A2, A3, A4, A5,<br>A6, A7, A8, A11<br>, A9, A10<br>, A12, A13, A14,<br>A15, A16<br>, A17, A17a, A17b,<br>A17c, A17d, A17e,<br>A17f, A18, A19,<br>A19a, A19b, A20,<br>A21, A22, A24<br>, A23, A28a<br><br>, A25, A25a, A25b,<br>A26, A27, A27a,<br>A28, A29, A30<br>, A25c, A31, A32<br>, A33, A34, A35,<br>A36, A37<br>A38, A39, A40, A41,<br>A42, A43, A44, A45 | Not Present  | Rel-5<br>Rel-6<br><br>Rel-7<br><br><br>Rel-7<br>Rel-8<br>Rel-8<br><br>Rel-9<br>Rel-10<br><br>Rel-11 | RBS-073<br><br>RBS-074<br>RBS-075<br><br>RBS-076<br><br><br>RBS-077<br>RBS-078<br><br>RBS-079 |

| Information Element                        | Condition | Value/remark                                                                                                                | Version | Index   |
|--------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------|---------|---------|
| CN information info                        |           | Not Present                                                                                                                 |         | RBS-080 |
| URA identity                               |           | Not Present                                                                                                                 |         | RBS-081 |
| RNC support for change of UE capability    |           | Not Present                                                                                                                 | Rel-7   | RBS-082 |
| CHOICE Specification mode                  |           | Complete specification                                                                                                      | Rel-6   | RBS-083 |
| - Signalling RB information to setup       |           | Not Present                                                                                                                 |         | RBS-084 |
| - RAB information for setup                | A1, A7    |                                                                                                                             |         | RBS-085 |
| - RAB info                                 |           |                                                                                                                             |         | RBS-086 |
| - RAB identity                             |           | 0000 0001B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.<br>CS domain |         | RBS-087 |
| - CN domain identity                       |           | Not Present                                                                                                                 |         | RBS-088 |
| - NAS Synchronization Indicator            |           | useT314                                                                                                                     |         | RBS-089 |
| - Re-establishment timer                   |           |                                                                                                                             |         | RBS-090 |
| - RB information to setup                  |           |                                                                                                                             |         | RBS-091 |
| - RB identity                              |           | 10                                                                                                                          |         | RBS-092 |
| - PDCP info                                |           | Not Present                                                                                                                 |         | RBS-093 |
| - CHOICE RLC info type                     |           | RLC info                                                                                                                    |         | RBS-094 |
| - CHOICE Uplink RLC mode                   |           | TM RLC                                                                                                                      |         | RBS-095 |
| - Transmission RLC discard                 |           | Not Present                                                                                                                 |         | RBS-096 |
| - Segmentation indication                  |           | FALSE                                                                                                                       |         | RBS-097 |
| - CHOICE Downlink RLC mode                 |           | TM RLC                                                                                                                      |         | RBS-098 |
| - Segmentation indication                  |           | FALSE                                                                                                                       |         | RBS-099 |
| - RB mapping info                          |           |                                                                                                                             |         | RBS-100 |
| - Information for each multiplexing option |           |                                                                                                                             |         | RBS-101 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                                                                 |         | RBS-102 |
| - Number of uplink RLC logical channels    |           | 1                                                                                                                           |         | RBS-103 |
| - Uplink transport channel type            |           | DCH                                                                                                                         |         | RBS-104 |
| - UL Transport channel identity            |           | 1                                                                                                                           |         | RBS-105 |
| - Logical channel identity                 |           | Not Present                                                                                                                 |         | RBS-106 |
| - CHOICE RLC size list                     |           | Configured                                                                                                                  |         | RBS-107 |
| - MAC logical channel priority             |           | 7                                                                                                                           |         | RBS-108 |
| - Downlink RLC logical channel info        |           |                                                                                                                             |         | RBS-109 |
| - Number of downlink RLC logical channels  |           | 1                                                                                                                           |         | RBS-110 |
| - Downlink transport channel type          |           | DCH                                                                                                                         |         | RBS-111 |
| - DL DCH Transport channel identity        |           | 6                                                                                                                           |         | RBS-112 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                                                                 |         | RBS-113 |
| - Logical channel identity                 |           | Not Present                                                                                                                 |         | RBS-114 |
| - RAB information for setup                | A2, A8    |                                                                                                                             |         | RBS-115 |
| - RAB info                                 |           |                                                                                                                             |         | RBS-116 |
| - RAB identity                             |           | 0000 0001B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.<br>CS domain |         | RBS-117 |
| - CN domain identity                       |           | Not Present                                                                                                                 |         | RBS-118 |
| - NAS Synchronization Indicator            |           | useT314                                                                                                                     |         | RBS-119 |
| - Re-establishment timer                   |           |                                                                                                                             |         | RBS-120 |
| - RB information to setup                  |           |                                                                                                                             |         | RBS-121 |
| - RB identity                              |           | 10                                                                                                                          |         | RBS-122 |
| - PDCP info                                |           | Not Present                                                                                                                 |         | RBS-123 |
| - CHOICE RLC info type                     |           | RLC info                                                                                                                    |         | RBS-124 |
| - CHOICE Uplink RLC mode                   |           | TM RLC                                                                                                                      |         | RBS-125 |
| - Transmission RLC discard                 |           | Not Present                                                                                                                 |         | RBS-126 |
| - Segmentation indication                  |           | FALSE                                                                                                                       |         | RBS-127 |
| - CHOICE Downlink RLC mode                 |           | TM RLC                                                                                                                      |         | RBS-128 |
| - Segmentation indication                  |           | FALSE                                                                                                                       |         | RBS-129 |
| - RB mapping info                          |           |                                                                                                                             |         | RBS-130 |
| - Information for each multiplexing        |           |                                                                                                                             |         | RBS-131 |

| Information Element                       | Condition | Value/remark | Version | Index   |
|-------------------------------------------|-----------|--------------|---------|---------|
| option                                    |           |              |         |         |
| - RLC logical channel mapping indicator   |           | Not Present  |         | RBS-132 |
| - Number of uplink RLC logical channels   |           | 1            |         | RBS-133 |
| - Uplink transport channel type           |           | DCH          |         | RBS-134 |
| - UL Transport channel identity           |           | 1            |         | RBS-135 |
| - Logical channel identity                |           | Not Present  |         | RBS-136 |
| - CHOICE RLC size list                    |           | Configured   |         | RBS-137 |
| - MAC logical channel priority            |           | 6            |         | RBS-138 |
| - Downlink RLC logical channel            |           |              |         | RBS-139 |
| info                                      |           |              |         |         |
| - Number of downlink RLC logical channels |           | 1            |         | RBS-140 |
| - Downlink transport channel type         |           | DCH          |         | RBS-141 |
| - DL DCH Transport channel identity       |           | 6            |         | RBS-142 |
| - DL DSCH Transport channel identity      |           | Not Present  |         | RBS-143 |
| - Logical channel identity                |           | Not Present  |         | RBS-144 |
| - RB identity                             |           | 11           |         | RBS-145 |
| - PDCP info                               |           | Not Present  |         | RBS-146 |
| - CHOICE RLC info type                    |           | RLC info     |         | RBS-147 |
| - CHOICE Uplink RLC mode                  |           | TM RLC       |         | RBS-148 |
| - Transmission RLC discard                |           | Not Present  |         | RBS-149 |
| - Segmentation indication                 |           | FALSE        |         | RBS-150 |
| - CHOICE Downlink RLC mode                |           | TM RLC       |         | RBS-151 |
| - Segmentation indication                 |           | FALSE        |         | RBS-152 |
| - RB mapping info                         |           |              |         | RBS-153 |
| - Information for each multiplexing       |           |              |         | RBS-154 |
| option                                    |           |              |         |         |
| - RLC logical channel mapping indicator   |           | Not Present  |         | RBS-155 |
| - Number of uplink RLC logical channels   |           | 1            |         | RBS-156 |
| - Uplink transport channel type           |           | DCH          |         | RBS-157 |
| - UL Transport channel identity           |           | 2            |         | RBS-158 |
| - Logical channel identity                |           | Not Present  |         | RBS-159 |
| - CHOICE RLC size list                    |           | Configured   |         | RBS-160 |
| - MAC logical channel priority            |           | 6            |         | RBS-161 |
| - Downlink RLC logical channel            |           |              |         | RBS-162 |
| info                                      |           |              |         |         |
| - Number of downlink RLC logical channels |           | 1            |         | RBS-163 |
| - Downlink transport channel type         |           | DCH          |         | RBS-164 |
| - DL DCH Transport channel identity       |           | 7            |         | RBS-165 |
| - DL DSCH Transport channel identity      |           | Not Present  |         | RBS-166 |
| - Logical channel identity                |           | Not Present  |         | RBS-167 |
| - RB identity                             |           | 12           |         | RBS-168 |
| - PDCP info                               |           | Not Present  |         | RBS-169 |
| - CHOICE RLC info type                    |           | RLC info     |         | RBS-170 |
| - CHOICE Uplink RLC mode                  |           | TM RLC       |         | RBS-171 |
| - Transmission RLC discard                |           | Not Present  |         | RBS-172 |
| - Segmentation indication                 |           | FALSE        |         | RBS-173 |
| - CHOICE Downlink RLC mode                |           | TM RLC       |         | RBS-174 |
| - Segmentation indication                 |           | FALSE        |         | RBS-175 |
| - RB mapping info                         |           |              |         | RBS-176 |
| - Information for each multiplexing       |           |              |         | RBS-177 |
| option                                    |           |              |         |         |
| - RLC logical channel mapping indicator   |           | Not Present  |         | RBS-178 |
| - Number of uplink RLC logical channels   |           | 1            |         | RBS-179 |

| Information Element                                                                                                                                                                                                                                                            | Condition      | Value/remark                                                                                                                              | Version | Index   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel</li> </ul> |                | DCH                                                                                                                                       |         | RBS-180 |
|                                                                                                                                                                                                                                                                                |                | 3                                                                                                                                         |         | RBS-181 |
|                                                                                                                                                                                                                                                                                |                | Not Present                                                                                                                               |         | RBS-182 |
|                                                                                                                                                                                                                                                                                |                | Configured                                                                                                                                |         | RBS-183 |
|                                                                                                                                                                                                                                                                                |                | 6                                                                                                                                         |         | RBS-184 |
|                                                                                                                                                                                                                                                                                |                |                                                                                                                                           |         | RBS-185 |
|                                                                                                                                                                                                                                                                                |                | 1                                                                                                                                         |         | RBS-186 |
| <ul style="list-style-type: none"> <li>- Number of downlink RLC logical channels</li> </ul>                                                                                                                                                                                    |                | DCH                                                                                                                                       |         | RBS-187 |
| <ul style="list-style-type: none"> <li>- Downlink transport channel</li> </ul>                                                                                                                                                                                                 |                | 8                                                                                                                                         |         | RBS-188 |
| <ul style="list-style-type: none"> <li>- DL DCH Transport channel identity</li> </ul>                                                                                                                                                                                          |                | Not Present                                                                                                                               |         | RBS-189 |
| <ul style="list-style-type: none"> <li>- DL DSCH Transport channel identity</li> </ul>                                                                                                                                                                                         |                | Not Present                                                                                                                               |         | RBS-190 |
| <ul style="list-style-type: none"> <li>- Logical channel identity</li> </ul>                                                                                                                                                                                                   |                |                                                                                                                                           |         |         |
| <ul style="list-style-type: none"> <li>- RAB information for setup</li> <li>- RAB info</li> <li>- RAB identity</li> </ul>                                                                                                                                                      | A3, A4, A5, A6 | (AM DTCH for PS domain)<br>0000 0101B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | Rel-5   | RBS-191 |
|                                                                                                                                                                                                                                                                                |                | PS domain                                                                                                                                 |         | RBS-192 |
|                                                                                                                                                                                                                                                                                |                | Not Present                                                                                                                               |         | RBS-193 |
|                                                                                                                                                                                                                                                                                |                | useT315                                                                                                                                   |         |         |
| <ul style="list-style-type: none"> <li>- CN domain identity</li> </ul>                                                                                                                                                                                                         |                | PS domain                                                                                                                                 |         | RBS-194 |
| <ul style="list-style-type: none"> <li>- NAS Synchronization Indicator</li> </ul>                                                                                                                                                                                              |                | Not Present                                                                                                                               |         | RBS-195 |
| <ul style="list-style-type: none"> <li>- Re-establishment timer</li> </ul>                                                                                                                                                                                                     |                | useT315                                                                                                                                   |         | RBS-196 |
| <ul style="list-style-type: none"> <li>- RB information to setup</li> </ul>                                                                                                                                                                                                    |                |                                                                                                                                           |         | RBS-197 |
| <ul style="list-style-type: none"> <li>- RB identity</li> </ul>                                                                                                                                                                                                                |                | 20                                                                                                                                        |         | RBS-198 |
| <ul style="list-style-type: none"> <li>- PDCP info</li> </ul>                                                                                                                                                                                                                  |                |                                                                                                                                           |         | RBS-199 |
| <ul style="list-style-type: none"> <li>- Support for lossless SRNS relocation</li> </ul>                                                                                                                                                                                       |                | FALSE                                                                                                                                     |         | RBS-200 |
| <ul style="list-style-type: none"> <li>- Max PDCP SN window size</li> </ul>                                                                                                                                                                                                    |                | Not present                                                                                                                               |         | RBS-201 |
| <ul style="list-style-type: none"> <li>- PDCP PDU header</li> </ul>                                                                                                                                                                                                            |                | Absent                                                                                                                                    |         | RBS-202 |
| <ul style="list-style-type: none"> <li>- Header compression</li> </ul>                                                                                                                                                                                                         |                | Not present                                                                                                                               |         | RBS-203 |
| <ul style="list-style-type: none"> <li>- CHOICE RLC info type</li> </ul>                                                                                                                                                                                                       |                | RLC info                                                                                                                                  |         | RBS-204 |
| <ul style="list-style-type: none"> <li>- CHOICE Uplink RLC mode</li> </ul>                                                                                                                                                                                                     |                | AM RLC                                                                                                                                    |         | RBS-205 |
| <ul style="list-style-type: none"> <li>- Transmission RLC discard</li> </ul>                                                                                                                                                                                                   |                |                                                                                                                                           |         | RBS-206 |
| <ul style="list-style-type: none"> <li>- CHOICE SDU discard mode</li> </ul>                                                                                                                                                                                                    |                | No Discard                                                                                                                                |         | RBS-207 |
| <ul style="list-style-type: none"> <li>- MAX_DAT</li> </ul>                                                                                                                                                                                                                    |                | 15                                                                                                                                        |         | RBS-208 |
| <ul style="list-style-type: none"> <li>- Transmission window size</li> </ul>                                                                                                                                                                                                   |                | 128                                                                                                                                       |         | RBS-209 |
| <ul style="list-style-type: none"> <li>- Timer_RST</li> </ul>                                                                                                                                                                                                                  |                | 500                                                                                                                                       |         | RBS-210 |
| <ul style="list-style-type: none"> <li>- Max_RST</li> </ul>                                                                                                                                                                                                                    |                | 4                                                                                                                                         |         | RBS-211 |
| <ul style="list-style-type: none"> <li>- Polling info</li> </ul>                                                                                                                                                                                                               |                |                                                                                                                                           |         | RBS-212 |
| <ul style="list-style-type: none"> <li>- Timer_poll_prohibit</li> </ul>                                                                                                                                                                                                        |                | 200                                                                                                                                       |         | RBS-213 |
| <ul style="list-style-type: none"> <li>- Timer_poll</li> </ul>                                                                                                                                                                                                                 |                | 200                                                                                                                                       |         | RBS-214 |
| <ul style="list-style-type: none"> <li>- Poll_PDU</li> </ul>                                                                                                                                                                                                                   |                | Not Present                                                                                                                               |         | RBS-215 |
| <ul style="list-style-type: none"> <li>- Poll_SDU</li> </ul>                                                                                                                                                                                                                   |                | 1                                                                                                                                         |         | RBS-216 |
| <ul style="list-style-type: none"> <li>- Last transmission PDU poll</li> </ul>                                                                                                                                                                                                 |                | TRUE                                                                                                                                      |         | RBS-217 |
| <ul style="list-style-type: none"> <li>- Last retransmission PDU poll</li> </ul>                                                                                                                                                                                               |                | TRUE                                                                                                                                      |         | RBS-218 |
| <ul style="list-style-type: none"> <li>- Poll_Windows</li> </ul>                                                                                                                                                                                                               |                | 99                                                                                                                                        |         | RBS-219 |
| <ul style="list-style-type: none"> <li>- Timer_poll_periodic</li> </ul>                                                                                                                                                                                                        |                | Not Present                                                                                                                               |         | RBS-220 |
| <ul style="list-style-type: none"> <li>- CHOICE Downlink RLC mode</li> </ul>                                                                                                                                                                                                   |                | AM RLC                                                                                                                                    |         | RBS-221 |
| <ul style="list-style-type: none"> <li>- CHOICE Downlink RLC PDU</li> </ul>                                                                                                                                                                                                    |                | Reference to clause 6 Parameter Set                                                                                                       |         | RBS-222 |
| <ul style="list-style-type: none"> <li>- In-sequence delivery</li> </ul>                                                                                                                                                                                                       |                | TRUE                                                                                                                                      |         | RBS-223 |
| <ul style="list-style-type: none"> <li>- Receiving window size</li> </ul>                                                                                                                                                                                                      |                | 128                                                                                                                                       |         | RBS-224 |
| <ul style="list-style-type: none"> <li>- Downlink RLC status info</li> </ul>                                                                                                                                                                                                   |                |                                                                                                                                           |         | RBS-225 |
| <ul style="list-style-type: none"> <li>- Timer_status_prohibit</li> </ul>                                                                                                                                                                                                      |                | 200                                                                                                                                       |         | RBS-226 |
| <ul style="list-style-type: none"> <li>- Timer_EPC</li> </ul>                                                                                                                                                                                                                  |                | Not Present                                                                                                                               |         | RBS-227 |
| <ul style="list-style-type: none"> <li>- Missing PDU indicator</li> </ul>                                                                                                                                                                                                      |                | TRUE                                                                                                                                      |         | RBS-228 |
| <ul style="list-style-type: none"> <li>- Timer_STATUS_periodic</li> </ul>                                                                                                                                                                                                      |                | Not Present                                                                                                                               |         | RBS-229 |
| <ul style="list-style-type: none"> <li>- RB mapping info</li> </ul>                                                                                                                                                                                                            |                |                                                                                                                                           |         | RBS-230 |
| <ul style="list-style-type: none"> <li>- Information for each multiplexing option</li> </ul>                                                                                                                                                                                   |                | 2 RBMuxOptions                                                                                                                            |         | RBS-231 |
| <ul style="list-style-type: none"> <li>- RLC logical channel mapping indicator</li> </ul>                                                                                                                                                                                      |                | Not Present                                                                                                                               |         | RBS-232 |
| <ul style="list-style-type: none"> <li>- Number of uplink RLC logical</li> </ul>                                                                                                                                                                                               |                | 1                                                                                                                                         |         | RBS-233 |

| Information Element             | Condition | Value/remark                                                                                     | Version | Index   |
|---------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|---------|
| channels                        |           |                                                                                                  |         |         |
| - Uplink transport channel type |           | DCH                                                                                              |         | RBS-234 |
| - UL Transport channel identity |           | 1                                                                                                |         | RBS-235 |
| - Logical channel identity      |           | Not Present                                                                                      |         | RBS-236 |
| - CHOICE RLC size list          |           | Configured                                                                                       |         | RBS-237 |
| - MAC logical channel priority  |           | 8                                                                                                |         | RBS-238 |
| - Downlink RLC logical channel  |           |                                                                                                  |         | RBS-239 |
| info                            |           |                                                                                                  |         |         |
| - Number of downlink RLC        |           | 1                                                                                                |         | RBS-240 |
| logical channels                |           |                                                                                                  |         |         |
| - Downlink transport channel    |           | DCH                                                                                              |         | RBS-241 |
| type                            |           |                                                                                                  |         |         |
| - DL DCH Transport channel      |           | 6                                                                                                |         | RBS-242 |
| identity                        |           |                                                                                                  |         |         |
| - DL DSCH Transport channel     |           | Not Present                                                                                      |         | RBS-243 |
| identity                        |           |                                                                                                  |         |         |
| - Logical channel identity      |           | Not Present                                                                                      |         | RBS-244 |
| - RLC logical channel mapping   |           | Not Present                                                                                      |         | RBS-245 |
| indicator                       |           |                                                                                                  |         |         |
| - Number of uplink RLC logical  |           | 1                                                                                                |         | RBS-246 |
| channels                        |           |                                                                                                  |         |         |
| - Uplink transport channel type |           | RACH                                                                                             |         | RBS-247 |
| - UL Transport channel identity |           | Not Present                                                                                      |         | RBS-248 |
| - Logical channel identity      |           | 7                                                                                                |         | RBS-249 |
| - CHOICE RLC size list          |           | Explicit list                                                                                    |         | RBS-250 |
| - RLC size index                |           | Reference to clause 6 Parameter Set                                                              |         | RBS-251 |
| - MAC logical channel priority  |           | 8                                                                                                |         | RBS-252 |
| - Downlink RLC logical channel  |           |                                                                                                  |         | RBS-253 |
| info                            |           |                                                                                                  |         |         |
| - Number of downlink RLC        |           | 1                                                                                                |         | RBS-254 |
| logical channels                |           |                                                                                                  |         |         |
| - Downlink transport channel    |           | FACH                                                                                             |         | RBS-255 |
| type                            |           |                                                                                                  |         |         |
| - DL DCH Transport channel      |           | Not Present                                                                                      |         | RBS-256 |
| identity                        |           |                                                                                                  |         |         |
| - DL DSCH Transport channel     |           | Not Present                                                                                      |         | RBS-257 |
| identity                        |           |                                                                                                  |         |         |
| - Logical channel identity      |           | 7                                                                                                |         | RBS-258 |
| - RAB information for setup     | A9        |                                                                                                  | Rel-5   | RBS-259 |
| - RAB info                      |           | (high-speed AM DTCH for PS domain)                                                               |         | RBS-260 |
| - RAB identity                  |           | 0000 0101B                                                                                       |         | RBS-261 |
|                                 |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |         |
| - CN domain identity            |           | PS domain                                                                                        |         | RBS-262 |
| - NAS Synchronization Indicator |           | Not Present                                                                                      |         | RBS-263 |
| - Re-establishment timer        |           | useT315                                                                                          |         | RBS-264 |
| - RB information to setup       |           |                                                                                                  |         | RBS-265 |
| - RB identity                   |           | 25                                                                                               |         | RBS-266 |
| - PDCP info                     |           |                                                                                                  |         | RBS-267 |
| - Support for lossless SRNS     |           | FALSE                                                                                            |         | RBS-268 |
| relocation                      |           |                                                                                                  |         |         |
| - Max PDCP SN window size       |           | Not present                                                                                      |         | RBS-269 |
| - PDCP PDU header               |           | Absent                                                                                           |         | RBS-270 |
| - Header compression            |           | Not present                                                                                      |         | RBS-271 |
| information                     |           |                                                                                                  |         |         |
| - CHOICE RLC info type          |           | RLC info                                                                                         |         | RBS-272 |
| - CHOICE Uplink RLC mode        |           | AM RLC                                                                                           |         | RBS-273 |
| - Transmission RLC discard      |           |                                                                                                  |         | RBS-274 |
| - CHOICE SDU discard mode       |           | No Discard                                                                                       |         | RBS-275 |
| - MAX_DAT                       |           | 15                                                                                               |         | RBS-276 |
| - Transmission window size      |           | 128                                                                                              |         | RBS-277 |
| - Timer_RST                     |           | 500                                                                                              |         | RBS-278 |
| - Max_RST                       |           | 4                                                                                                |         | RBS-279 |
| - Polling info                  |           |                                                                                                  |         | RBS-280 |
| - Timer_poll_prohibit           |           | 100                                                                                              |         | RBS-281 |
| - Timer_poll                    |           | 100                                                                                              |         | RBS-282 |



| Information Element                 | Condition | Value/remark                        | Version | Index   |
|-------------------------------------|-----------|-------------------------------------|---------|---------|
| - Poll_PDU                          |           | Not Present                         |         | RBS-283 |
| - Poll_SDU                          |           | 1                                   |         | RBS-284 |
| - Last transmission PDU poll        |           | TRUE                                |         | RBS-285 |
| - Last retransmission PDU poll      |           | TRUE                                |         | RBS-286 |
| - Poll_Windows                      |           | 99                                  |         | RBS-287 |
| - Timer_poll_periodic               |           | Not Present                         |         | RBS-288 |
| - CHOICE Downlink RLC mode          |           | AM RLC                              |         | RBS-289 |
| - CHOICE Downlink RLC PDU           |           | Reference to clause 6 Parameter Set |         | RBS-290 |
| Size                                |           |                                     |         |         |
| - In-sequence delivery              |           | TRUE                                |         | RBS-291 |
| - Receiving window size             |           | 768                                 |         | RBS-292 |
| - Downlink RLC status info          |           |                                     |         | RBS-293 |
| - Timer_status_prohibit             |           | 100                                 |         | RBS-294 |
| - Timer_EPC                         |           | Not Present                         |         | RBS-295 |
| - Missing PDU indicator             |           | TRUE                                |         | RBS-296 |
| - Timer_STATUS_periodic             |           | Not Present                         |         | RBS-297 |
| - One sided RLC re-                 |           | FALSE                               |         | RBS-298 |
| establishment                       |           |                                     |         |         |
| - RB mapping info                   |           |                                     |         | RBS-299 |
| - Information for each multiplexing |           | 3 RBMuxOptions                      |         | RBS-300 |
| option                              |           |                                     |         |         |
| - RLC logical channel mapping       |           | Not Present                         |         | RBS-301 |
| indicator                           |           |                                     |         |         |
| - Number of uplink RLC logical      |           | 1                                   |         | RBS-302 |
| channels                            |           |                                     |         |         |
| - Uplink transport channel type     |           | DCH                                 |         | RBS-303 |
| - UL Transport channel identity     |           | 1                                   |         | RBS-304 |
| - Logical channel identity          |           | Not Present                         |         | RBS-305 |
| - CHOICE RLC size list              |           | Configured                          |         | RBS-306 |
| - MAC logical channel priority      |           | 8                                   |         | RBS-307 |
| - Downlink RLC logical channel      |           |                                     |         | RBS-308 |
| info                                |           |                                     |         |         |
| - Number of downlink RLC            |           | 1                                   |         | RBS-309 |
| logical channels                    |           |                                     |         |         |
| - Downlink transport channel        |           | DCH                                 |         | RBS-310 |
| type                                |           |                                     |         |         |
| - DL DCH Transport channel          |           | 6                                   |         | RBS-311 |
| identity                            |           |                                     |         |         |
| - DL DSCH Transport channel         |           | Not Present                         |         | RBS-312 |
| identity                            |           |                                     |         |         |
| - DL HS-DSCH MAC-d flow             |           | Not Present                         |         | RBS-313 |
| identity                            |           |                                     |         |         |
| - Logical channel identity          |           | Not Present                         |         | RBS-314 |
| - RLC logical channel mapping       |           | Not Present                         |         | RBS-315 |
| indicator                           |           |                                     |         |         |
| - Number of uplink RLC logical      |           | 1                                   |         | RBS-316 |
| channels                            |           |                                     |         |         |
| - Uplink transport channel type     |           | DCH                                 |         | RBS-317 |
| - UL Transport channel identity     |           | 1                                   |         | RBS-318 |
| - Logical channel identity          |           | Not Present                         |         | RBS-319 |
| - CHOICE RLC size list              |           | Configured                          |         | RBS-320 |
| - MAC logical channel priority      |           | 8                                   |         | RBS-321 |
| - Downlink RLC logical channel      |           |                                     |         | RBS-322 |
| info                                |           |                                     |         |         |
| - Number of downlink RLC logical    |           | 1                                   |         | RBS-323 |
| channels                            |           |                                     |         |         |
| - Downlink transport channel        |           | HS-DSCH                             |         | RBS-324 |
| type                                |           |                                     |         |         |
| - DL DCH Transport channel          |           | Not Present                         |         | RBS-325 |
| identity                            |           |                                     |         |         |
| - DL DSCH Transport channel         |           | Not Present                         |         | RBS-326 |
| identity                            |           |                                     |         |         |
| - DL HS-DSCH MAC-d flow             |           | 0                                   |         | RBS-327 |
| identity                            |           |                                     |         |         |
| - Logical channel identity          |           | Not Present                         |         | RBS-328 |
| - RLC logical channel mapping       |           | Not Present                         |         | RBS-329 |
| indicator                           |           |                                     |         |         |

| Information Element                       | Condition | Value/remark                                                                                     | Version | Index   |
|-------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|---------|
| - Number of uplink RLC logical channels   |           | 1                                                                                                |         | RBS-330 |
| - Uplink transport channel type           |           | RACH                                                                                             |         | RBS-331 |
| - UL Transport channel identity           |           | Not Present                                                                                      |         | RBS-332 |
| - Logical channel identity                |           | 7                                                                                                |         | RBS-333 |
| - CHOICE RLC size list                    |           | Explicit list                                                                                    |         | RBS-334 |
| - RLC size index                          |           | Reference to clause 6 Parameter Set                                                              |         | RBS-335 |
| - MAC logical channel priority            |           | 8                                                                                                |         | RBS-336 |
| - Downlink RLC logical channel            |           |                                                                                                  |         | RBS-337 |
| info                                      |           |                                                                                                  |         |         |
| - Number of downlink RLC logical channels |           | 1                                                                                                |         | RBS-338 |
| - Downlink transport channel type         |           | FACH                                                                                             |         | RBS-339 |
| - DL DCH Transport channel identity       |           | Not Present                                                                                      |         | RBS-340 |
| - DL DSCH Transport channel identity      |           | Not Present                                                                                      |         | RBS-341 |
| - Logical channel identity                |           | 7                                                                                                |         | RBS-342 |
| - RAB information for setup               | A10       |                                                                                                  | Rel-5   | RBS-343 |
| - RAB info                                |           | (high-speed AM DTCH for PS domain)                                                               |         | RBS-344 |
| - RAB identity                            |           | 0000 0101B                                                                                       |         | RBS-345 |
|                                           |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |         |
| - CN domain identity                      |           | PS domain                                                                                        |         | RBS-346 |
| - NAS Synchronization Indicator           |           | Not Present                                                                                      |         | RBS-347 |
| - Re-establishment timer                  |           | useT315                                                                                          |         | RBS-348 |
| - RB information to setup                 |           |                                                                                                  |         | RBS-349 |
| - RB identity                             |           | 25                                                                                               |         | RBS-350 |
| - PDCP info                               |           |                                                                                                  |         | RBS-351 |
| - Support for lossless SRNS relocation    |           | FALSE                                                                                            |         | RBS-352 |
| - Max PDCP SN window size                 |           | Not present                                                                                      |         | RBS-353 |
| - PDCP PDU header                         |           | Absent                                                                                           |         | RBS-354 |
| - Header compression                      |           | Not present                                                                                      |         | RBS-355 |
| information                               |           |                                                                                                  |         |         |
| - CHOICE RLC info type                    |           | RLC info                                                                                         |         | RBS-356 |
| - CHOICE Uplink RLC mode                  |           | AM RLC                                                                                           |         | RBS-357 |
| - Transmission RLC discard                |           |                                                                                                  |         | RBS-358 |
| - CHOICE SDU discard mode                 |           | No Discard                                                                                       |         | RBS-359 |
| - MAX_DAT                                 |           | 15                                                                                               |         | RBS-360 |
| - Transmission window size                |           | 128                                                                                              |         | RBS-361 |
| - Timer_RST                               |           | 500                                                                                              |         | RBS-362 |
| - Max_RST                                 |           | 4                                                                                                |         | RBS-363 |
| - Polling info                            |           |                                                                                                  |         | RBS-364 |
| - Timer_poll_prohibit                     |           | 100                                                                                              |         | RBS-365 |
| - Timer_poll                              |           | 100                                                                                              |         | RBS-366 |
| - Poll_PDU                                |           | Not Present                                                                                      |         | RBS-367 |
| - Poll_SDU                                |           | 1                                                                                                |         | RBS-368 |
| - Last transmission PDU poll              |           | TRUE                                                                                             |         | RBS-369 |
| - Last retransmission PDU poll            |           | TRUE                                                                                             |         | RBS-370 |
| - Poll_Windows                            |           | 99                                                                                               |         | RBS-371 |
| - Timer_poll_periodic                     |           | Not Present                                                                                      |         | RBS-372 |
| - CHOICE Downlink RLC mode                |           | AM RLC                                                                                           |         | RBS-373 |
| - CHOICE Downlink RLC PDU                 |           | Reference to clause 6 Parameter Set                                                              |         | RBS-374 |
| Size                                      |           |                                                                                                  |         |         |
| - In-sequence delivery                    |           | TRUE                                                                                             |         | RBS-375 |
| - Receiving window size                   |           | 768                                                                                              |         | RBS-376 |
| - Downlink RLC status info                |           |                                                                                                  |         | RBS-377 |
| - Timer_status_prohibit                   |           | 100                                                                                              |         | RBS-378 |
| - Timer_EPC                               |           | Not Present                                                                                      |         | RBS-379 |
| - Missing PDU indicator                   |           | TRUE                                                                                             |         | RBS-380 |
| - Timer_STATUS_periodic                   |           | Not Present                                                                                      |         | RBS-381 |
| - One sided RLC re-establishment          |           | FALSE                                                                                            |         | RBS-382 |
| - RB mapping info                         |           |                                                                                                  |         | RBS-383 |

| Information Element                        | Condition | Value/remark                                                                                     | Version | Index   |
|--------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|---------|
| - Information for each multiplexing option |           | 1 RBMuxOption                                                                                    |         | RBS-384 |
| - RLC logical channel mapping indicator    |           | Not present                                                                                      |         | RBS-385 |
| - Number of uplink RLC logical channels    |           | 1                                                                                                |         | RBS-386 |
| - Uplink transport channel type            |           | DCH                                                                                              |         | RBS-387 |
| - UL Transport channel identity            |           | 1                                                                                                |         | RBS-388 |
| - Logical channel identity                 |           | Not Present                                                                                      |         | RBS-389 |
| - CHOICE RLC size list                     |           | Configured                                                                                       |         | RBS-390 |
| - MAC logical channel priority             |           | 8                                                                                                |         | RBS-391 |
| - Downlink RLC logical channel info        |           |                                                                                                  |         | RBS-392 |
| - Number of downlink RLC logical channels  |           | 1                                                                                                |         | RBS-393 |
| - Downlink transport channel type          |           | HS-DSCH                                                                                          |         | RBS-394 |
| - DL DCH Transport channel identity        |           | Not present                                                                                      |         | RBS-395 |
| - DL DSCH Transport channel identity       |           | Not present                                                                                      |         | RBS-396 |
| - DL HS-DSCH MAC-d flow identity           |           | 0                                                                                                |         | RBS-397 |
| - Logical channel identity                 |           | Not Present                                                                                      |         | RBS-398 |
| - RAB information for setup                | A11       |                                                                                                  |         | RBS-399 |
| - RAB info                                 |           | (AM DTCH for PS domain)                                                                          |         | RBS-400 |
| - RAB identity                             |           | 0000 0101B                                                                                       |         | RBS-401 |
|                                            |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |         |
| - CN domain identity                       |           | PS domain                                                                                        |         | RBS-402 |
| - NAS Synchronization Indicator            |           | Not Present                                                                                      |         | RBS-403 |
| - Re-establishment timer                   |           | useT315                                                                                          |         | RBS-404 |
| - RB information to setup                  |           |                                                                                                  |         | RBS-405 |
| - RB identity                              |           | 20                                                                                               |         | RBS-406 |
| - PDCP info                                |           |                                                                                                  |         | RBS-407 |
| - Support for lossless SRNS relocation     |           | FALSE                                                                                            |         | RBS-408 |
| - Max PDCP SN window size                  |           | Not present                                                                                      |         | RBS-409 |
| - PDCP PDU header                          |           | Absent                                                                                           |         | RBS-410 |
| - Header compression                       |           | Not present                                                                                      |         | RBS-411 |
| - CHOICE RLC info type                     |           | RLC info                                                                                         |         | RBS-412 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                                                                                           |         | RBS-413 |
| - Transmission RLC discard                 |           |                                                                                                  |         | RBS-414 |
| - CHOICE SDU discard mode                  |           | No Discard                                                                                       |         | RBS-415 |
| - MAX_DAT                                  |           | 15                                                                                               |         | RBS-416 |
| - Transmission window size                 |           | 128                                                                                              |         | RBS-417 |
| - Timer_RST                                |           | 500                                                                                              |         | RBS-418 |
| - Max_RST                                  |           | 4                                                                                                |         | RBS-419 |
| - Polling info                             |           |                                                                                                  |         | RBS-420 |
| - Timer_poll_prohibit                      |           | 200                                                                                              |         | RBS-421 |
| - Timer_poll                               |           | 200                                                                                              |         | RBS-422 |
| - Poll_PDU                                 |           | Not Present                                                                                      |         | RBS-423 |
| - Poll_SDU                                 |           | 1                                                                                                |         | RBS-424 |
| - Last transmission PDU poll               |           | TRUE                                                                                             |         | RBS-425 |
| - Last retransmission PDU poll             |           | TRUE                                                                                             |         | RBS-426 |
| - Poll_Windows                             |           | 99                                                                                               |         | RBS-427 |
| - Timer_poll_periodic                      |           | Not Present                                                                                      |         | RBS-428 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                                                                                           |         | RBS-429 |
| - CHOICE Downlink RLC PDU Size             |           | Reference to clause 6 Parameter Set                                                              | Rel-5   | RBS-430 |
| - In-sequence delivery                     |           | TRUE                                                                                             |         | RBS-431 |
| - Receiving window size                    |           | 128                                                                                              |         | RBS-432 |
| - Downlink RLC status info                 |           |                                                                                                  |         | RBS-433 |
| - Timer_status_prohibit                    |           | 200                                                                                              |         | RBS-434 |
| - Timer_EPC                                |           | Not Present                                                                                      |         | RBS-435 |

| Information Element                        | Condition  | Value/remark                                                                                     | Version        | Index   |
|--------------------------------------------|------------|--------------------------------------------------------------------------------------------------|----------------|---------|
| - Missing PDU indicator                    |            | TRUE                                                                                             |                | RBS-436 |
| - Timer_STATUS_periodic                    |            | Not Present                                                                                      |                | RBS-437 |
| - RB mapping info                          |            |                                                                                                  |                | RBS-438 |
| - Information for each multiplexing option |            | 2 RBMuxOptions                                                                                   |                | RBS-439 |
| - RLC logical channel mapping indicator    |            | Not Present                                                                                      |                | RBS-440 |
| - Number of uplink RLC logical channels    |            | 1                                                                                                |                | RBS-441 |
| - Uplink transport channel type            |            | DCH                                                                                              |                | RBS-442 |
| - UL Transport channel identity            |            | 4                                                                                                |                | RBS-443 |
| - Logical channel identity                 |            | Not Present                                                                                      |                | RBS-444 |
| - CHOICE RLC size list                     |            | Configured                                                                                       |                | RBS-445 |
| - MAC logical channel priority             |            | 8                                                                                                |                | RBS-446 |
| - Downlink RLC logical channel info        |            |                                                                                                  |                | RBS-447 |
| - Number of downlink RLC logical channels  |            | 1                                                                                                |                | RBS-448 |
| - Downlink transport channel type          |            | DCH                                                                                              |                | RBS-449 |
| - DL DCH Transport channel identity        |            | 9                                                                                                |                | RBS-450 |
| - DL DSCH Transport channel identity       |            | Not Present                                                                                      |                | RBS-451 |
| - Logical channel identity                 |            | Not Present                                                                                      |                | RBS-452 |
| - RLC logical channel mapping indicator    |            | Not Present                                                                                      |                | RBS-453 |
| - Number of uplink RLC logical channels    |            | 1                                                                                                |                | RBS-454 |
| - Uplink transport channel type            |            | RACH                                                                                             |                | RBS-455 |
| - UL Transport channel identity            |            | Not Present                                                                                      |                | RBS-456 |
| - Logical channel identity                 |            | 7                                                                                                |                | RBS-457 |
| - CHOICE RLC size list                     |            | Explicit list                                                                                    |                | RBS-458 |
| - RLC size index                           |            | Reference to clause 6 Parameter Set                                                              |                | RBS-459 |
| - MAC logical channel priority             |            | 8                                                                                                |                | RBS-460 |
| - Downlink RLC logical channel info        |            |                                                                                                  |                | RBS-461 |
| - Number of downlink RLC logical channels  |            | 1                                                                                                |                | RBS-462 |
| - Downlink transport channel type          |            | FACH                                                                                             |                | RBS-463 |
| - DL DCH Transport channel identity        |            | Not Present                                                                                      |                | RBS-464 |
| - DL DSCH Transport channel identity       |            | Not Present                                                                                      |                | RBS-465 |
| - Logical channel identity                 |            | 7                                                                                                |                | RBS-466 |
| - RAB information for setup                | A12<br>A19 |                                                                                                  | Rel-6<br>Rel-7 | RBS-467 |
| - RAB info                                 |            | (high-speed AM DTCH for PS domain)                                                               |                | RBS-468 |
| - RAB identity                             |            | 0000 0101B                                                                                       |                | RBS-469 |
|                                            |            | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |                | RBS-470 |
| - CN domain identity                       |            | PS domain                                                                                        |                | RBS-471 |
| - NAS Synchronization Indicator            |            | Not Present                                                                                      |                | RBS-472 |
| - Re-establishment timer                   |            | useT315                                                                                          |                | RBS-473 |
| - RB information to setup                  |            |                                                                                                  |                | RBS-474 |
| - RB identity                              |            | 25                                                                                               |                | RBS-475 |
| - PDCP info                                |            |                                                                                                  |                | RBS-476 |
| - Support for lossless SRNS relocation     |            | FALSE                                                                                            |                | RBS-477 |
| - Max PDCP SN window size                  |            | Not present                                                                                      |                | RBS-478 |
| - PDCP PDU header                          |            | Absent                                                                                           |                | RBS-479 |
| - Header compression information           |            | Not present                                                                                      |                | RBS-480 |
| - CHOICE RLC info type                     |            | RLC info                                                                                         |                | RBS-481 |
| - CHOICE Uplink RLC mode                   |            | AM RLC                                                                                           |                | RBS-482 |

| Information Element                 | Condition   | Value/remark                        | Version | Index   |
|-------------------------------------|-------------|-------------------------------------|---------|---------|
| - Transmission RLC discard          |             | No Discard                          |         | RBS-483 |
| - CHOICE SDU discard mode           |             | 15                                  |         | RBS-484 |
| - MAX_DAT                           |             | 256                                 |         | RBS-485 |
| - Transmission window size          |             | 500                                 |         | RBS-486 |
| - Timer_RST                         |             | 4                                   |         | RBS-487 |
| - Max_RST                           |             | 100                                 |         | RBS-488 |
| - Polling info                      |             | 100                                 |         | RBS-489 |
| - Timer_poll_prohibit               |             | 100                                 |         | RBS-490 |
| - Timer_poll                        |             | Not Present                         |         | RBS-491 |
| - Poll_PDU                          |             | 1                                   |         | RBS-492 |
| - Poll_SDU                          |             | TRUE                                |         | RBS-493 |
| - Last transmission PDU poll        |             | TRUE                                |         | RBS-494 |
| - Last retransmission PDU poll      |             | 99                                  |         | RBS-495 |
| - Poll_Windows                      |             | Not Present                         |         | RBS-496 |
| - Timer_poll_periodic               |             | AM RLC                              |         | RBS-497 |
| - CHOICE Downlink RLC mode          |             | Reference to clause 6 Parameter Set |         | RBS-498 |
| - CHOICE Downlink RLC PDU           |             |                                     |         | RBS-499 |
| Size                                |             |                                     |         |         |
| - In-sequence delivery              |             | TRUE                                |         | RBS-500 |
| - Receiving window size             |             | 768                                 |         | RBS-501 |
| - Downlink RLC status info          |             |                                     |         | RBS-502 |
| - Timer_status_prohibit             |             | 100                                 |         | RBS-503 |
| - Timer_EPC                         |             | Not Present                         |         | RBS-504 |
| - Missing PDU indicator             |             | TRUE                                |         | RBS-505 |
| - Timer_STATUS_periodic             |             | Not Present                         |         | RBS-506 |
| - One sided RLC re-                 |             | FALSE                               |         | RBS-507 |
| establishment                       |             |                                     |         |         |
| - RB mapping info                   |             |                                     |         | RBS-508 |
| - Information for each multiplexing |             | 3 RBMuxOptions                      |         | RBS-509 |
| option                              |             |                                     |         |         |
| - RLC logical channel mapping       |             | Not Present                         |         | RBS-510 |
| indicator                           |             |                                     |         |         |
| - Number of uplink RLC logical      |             | 1                                   |         | RBS-511 |
| channels                            |             |                                     |         |         |
| - Uplink transport channel type     |             | DCH                                 |         | RBS-512 |
| - UL Transport channel identity     |             | 1                                   |         | RBS-513 |
| - Logical channel identity          |             | Not Present                         |         | RBS-514 |
| - CHOICE RLC size list              |             | Configured                          |         | RBS-515 |
| - MAC logical channel priority      |             | 8                                   |         | RBS-516 |
| - Downlink RLC logical channel      |             |                                     |         | RBS-517 |
| info                                |             |                                     |         |         |
| - Number of downlink RLC            |             | 1                                   |         | RBS-518 |
| logical channels                    |             |                                     |         |         |
| - Downlink transport channel        |             | DCH                                 |         | RBS-519 |
| type                                |             |                                     |         |         |
| - DL DCH Transport channel          |             | 6                                   |         | RBS-520 |
| identity                            |             |                                     |         |         |
| - DL DSCH Transport channel         |             | Not Present                         |         | RBS-521 |
| identity                            |             |                                     |         |         |
| - DL HS-DSCH MAC-d flow             |             | Not Present                         |         | RBS-522 |
| identity                            |             |                                     |         |         |
| - Logical channel identity          |             | Not Present                         |         | RBS-523 |
| - RLC logical channel mapping       |             | Not Present                         |         | RBS-524 |
| indicator                           |             |                                     |         |         |
| - Number of uplink RLC logical      |             | 1                                   |         | RBS-525 |
| channels                            |             |                                     |         |         |
| - Uplink transport channel type     |             | E-DCH                               |         | RBS-526 |
| - Logical channel identity          |             | 7                                   |         | RBS-527 |
| - E-DCH MAC-d flow identity         |             | 2                                   |         | RBS-528 |
| - CHOICE RLC PDU size               | MAC-I-FIXED | Fixed size                          | Rel-8   | RBS-529 |
| - DDI                               |             | 5                                   |         | RBS-530 |
| - RLC PDU size list                 |             | 1 RLC PDU size                      |         | RBS-531 |
| - RLC PDU size                      |             | 336 bits                            |         | RBS-532 |
| - CHOICE RLC PDU size               | MAC-I-FLEX  | Flexible size                       | Rel-8   | RBS-533 |
| - Length indicator size             |             | 15 bit                              |         | RBS-534 |
| - Minimum UL RLC PDU size           |             | See clause 6.10                     |         | RBS-535 |
| - Largest UL RLC PDU size           |             | See clause 6.10                     |         | RBS-536 |

| Information Element                       | Condition                      | Value/remark                                                                                     | Version | Index   |
|-------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------|---------|---------|
| info                                      |                                | TRUE                                                                                             |         | RBS-537 |
| - Include in scheduling info              |                                | 8                                                                                                |         | RBS-538 |
| - MAC logical channel priority            |                                |                                                                                                  |         | RBS-539 |
| - Downlink RLC logical channel            |                                |                                                                                                  |         |         |
| info                                      |                                | 1                                                                                                |         | RBS-540 |
| - Number of downlink RLC logical channels |                                | HS-DSCH                                                                                          |         | RBS-541 |
| - Downlink transport channel              |                                | Not Present                                                                                      |         | RBS-542 |
| type                                      |                                | Not Present                                                                                      |         | RBS-543 |
| - DL DCH Transport channel                |                                | 0                                                                                                |         | RBS-544 |
| identity                                  |                                | Not Present                                                                                      |         | RBS-545 |
| - DL DSCH Transport channel               |                                | Not Present                                                                                      |         | RBS-546 |
| identity                                  |                                |                                                                                                  |         |         |
| - DL HS-DSCH MAC-d flow                   |                                | 1                                                                                                |         | RBS-547 |
| identity                                  |                                | RACH                                                                                             |         | RBS-548 |
| - Logical channel identity                |                                | Not Present                                                                                      |         | RBS-549 |
| - RLC logical channel mapping             |                                | 7                                                                                                |         | RBS-550 |
| indicator                                 |                                | Explicit list                                                                                    |         | RBS-551 |
| - Number of uplink RLC logical channels   |                                | Reference to clause 6 Parameter Set                                                              |         | RBS-552 |
| - Uplink transport channel type           |                                | 8                                                                                                |         | RBS-553 |
| - UL Transport channel identity           |                                |                                                                                                  |         | RBS-554 |
| - Logical channel identity                |                                | 1                                                                                                |         | RBS-555 |
| - CHOICE RLC size list                    |                                | FACH                                                                                             |         | RBS-556 |
| - RLC size index                          |                                | Not Present                                                                                      |         | RBS-557 |
| - MAC logical channel priority            |                                | Not Present                                                                                      |         | RBS-558 |
| - Downlink RLC logical channel            |                                |                                                                                                  |         |         |
| info                                      |                                |                                                                                                  |         |         |
| - Number of downlink RLC logical channels |                                |                                                                                                  |         |         |
| - Downlink transport channel              |                                |                                                                                                  |         |         |
| type                                      |                                |                                                                                                  |         |         |
| - DL DCH Transport channel                |                                |                                                                                                  |         |         |
| identity                                  |                                |                                                                                                  |         |         |
| - DL DSCH Transport channel               |                                |                                                                                                  |         |         |
| identity                                  |                                |                                                                                                  |         |         |
| - RAB information for setup               | A13, A14, A15, A16, A19a, A19b | (high-speed AM DTCH for PS domain)                                                               | Rel-6   | RBS-559 |
| - RAB info                                |                                | 0000 0101B                                                                                       | Rel-7   | RBS-560 |
| - RAB identity                            |                                | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS-561 |
| - CN domain identity                      |                                | PS domain                                                                                        |         | RBS-562 |
| - NAS Synchronization Indicator           |                                | Not Present                                                                                      |         | RBS-563 |
| - Re-establishment timer                  |                                | useT315                                                                                          |         | RBS-564 |
| - RB information to setup                 |                                | 25                                                                                               |         | RBS-565 |
| - RB identity                             |                                | FALSE                                                                                            |         | RBS-566 |
| - PDCP info                               |                                | Not present                                                                                      |         | RBS-567 |
| - Support for lossless SRNS relocation    |                                | Absent                                                                                           |         | RBS-568 |
| - Max PDCP SN window size                 |                                | Not present                                                                                      |         | RBS-569 |
| - PDCP PDU header                         |                                |                                                                                                  |         | RBS-570 |
| - Header compression                      |                                |                                                                                                  |         | RBS-571 |
| information                               |                                |                                                                                                  |         | RBS-572 |
| - CHOICE RLC info type                    |                                | RLC info                                                                                         |         | RBS-573 |
| - CHOICE Uplink RLC mode                  |                                | AM RLC                                                                                           |         | RBS-574 |
| - Transmission RLC discard                |                                |                                                                                                  |         | RBS-575 |
| - CHOICE SDU discard mode                 |                                | No Discard                                                                                       |         | RBS-576 |
| - MAX_DAT                                 |                                | 15                                                                                               |         | RBS-577 |
| - Transmission window size                |                                | 256                                                                                              |         | RBS-578 |
| - Timer_RST                               |                                | 500                                                                                              |         | RBS-579 |
| - Max_RST                                 |                                | 4                                                                                                |         | RBS-580 |
| - Polling info                            |                                |                                                                                                  |         | RBS-581 |
| - Timer_poll_prohibit                     |                                | 100                                                                                              |         | RBS-582 |
| - Timer_poll                              |                                | 100                                                                                              |         | RBS-583 |
| - Poll_PDU                                |                                | Not Present                                                                                      |         | RBS-584 |
| - Poll_SDU                                |                                | 1                                                                                                |         | RBS-585 |

| Information Element                 | Condition   | Value/remark                                                                                     | Version | Index   |
|-------------------------------------|-------------|--------------------------------------------------------------------------------------------------|---------|---------|
| - Last transmission PDU poll        |             | TRUE                                                                                             |         | RBS-586 |
| - Last retransmission PDU poll      |             | TRUE                                                                                             |         | RBS-587 |
| - Poll_Windows                      |             | 99                                                                                               |         | RBS-588 |
| - Timer_poll_periodic               |             | Not Present                                                                                      |         | RBS-589 |
| - CHOICE Downlink RLC mode          |             | AM RLC                                                                                           |         | RBS-590 |
| - CHOICE Downlink RLC PDU           |             | Reference to clause 6 Parameter Set                                                              |         | RBS-591 |
| Size                                |             |                                                                                                  |         |         |
| - In-sequence delivery              |             | TRUE                                                                                             |         | RBS-592 |
| - Receiving window size             |             | 768                                                                                              |         | RBS-593 |
| - Downlink RLC status info          |             |                                                                                                  |         | RBS-594 |
| - Timer_status_prohibit             |             | 100                                                                                              |         | RBS-595 |
| - Timer_EPC                         |             | Not Present                                                                                      |         | RBS-596 |
| - Missing PDU indicator             |             | TRUE                                                                                             |         | RBS-597 |
| - Timer_STATUS_periodic             |             | Not Present                                                                                      |         | RBS-598 |
| - One sided RLC re-                 |             | FALSE                                                                                            |         | RBS-599 |
| establishment                       |             |                                                                                                  |         |         |
| - RB mapping info                   |             |                                                                                                  |         | RBS-600 |
| - Information for each multiplexing |             | 1 RBMuxOption                                                                                    |         | RBS-601 |
| option                              |             |                                                                                                  |         |         |
| - RLC logical channel mapping       |             | Not Present                                                                                      |         | RBS-602 |
| indicator                           |             |                                                                                                  |         |         |
| - Number of uplink RLC logical      |             | 1                                                                                                |         | RBS-603 |
| channels                            |             |                                                                                                  |         |         |
| - Uplink transport channel type     |             | E-DCH                                                                                            |         | RBS-604 |
| - Logical channel identity          |             | 7                                                                                                |         | RBS-605 |
| - E-DCH MAC-d flow identity         |             | 2                                                                                                |         | RBS-606 |
| - CHOICE RLC PDU size               | MAC-I-FIXED | Fixed size                                                                                       | Rel-8   | RBS-607 |
| - DDI                               |             | 5                                                                                                |         | RBS-608 |
| - RLC PDU size list                 |             | 1 RLC PDU size                                                                                   |         | RBS-609 |
| - RLC PDU size                      |             | 336 bits                                                                                         |         | RBS-610 |
| - CHOICE RLC PDU size               | MAC-I-FLEX  | Flexible size                                                                                    | Rel-8   | RBS-611 |
| - Length indicator size             |             | - 15 bit                                                                                         |         | RBS-612 |
| - Minimum UL RLC PDU size           |             | See clause 6.10                                                                                  |         | RBS-613 |
| - Largest UL RLC PDU size           |             | See clause 6.10                                                                                  |         | RBS-614 |
| - Include in scheduling info        |             | TRUE                                                                                             |         | RBS-615 |
| - MAC logical channel priority      |             | 8                                                                                                |         | RBS-616 |
| - Downlink RLC logical channel      |             |                                                                                                  |         | RBS-617 |
| info                                |             |                                                                                                  |         |         |
| - Number of downlink RLC            |             | 1                                                                                                |         | RBS-618 |
| logical channels                    |             |                                                                                                  |         |         |
| - Downlink transport channel        |             | HS-DSCH                                                                                          |         | RBS-619 |
| type                                |             |                                                                                                  |         |         |
| - DL DCH Transport channel          |             | Not present                                                                                      |         | RBS-620 |
| identity                            |             |                                                                                                  |         |         |
| - DL DSCH Transport channel         |             | Not present                                                                                      |         | RBS-621 |
| identity                            |             |                                                                                                  |         |         |
| - DL HS-DSCH MAC-d flow             |             | 0                                                                                                |         | RBS-622 |
| identity                            |             |                                                                                                  |         |         |
| - Logical channel identity          |             | Not Present                                                                                      |         | RBS-623 |
| - RAB information for setup         | A15         | (second high-speed AM DTCH for PS domain)                                                        | Rel-6   | RBS-624 |
| - RAB info                          |             | 0000 0110B                                                                                       |         | RBS-625 |
| - RAB identity                      |             | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS-626 |
| - CN domain identity                |             | PS domain                                                                                        |         | RBS-627 |
| - NAS Synchronization Indicator     |             | Not Present                                                                                      |         | RBS-628 |
| - Re-establishment timer            |             | useT315                                                                                          |         | RBS-629 |
| - RB information to setup           |             |                                                                                                  |         | RBS-630 |
| - RB identity                       |             | 17                                                                                               |         | RBS-631 |
| - PDCP info                         |             |                                                                                                  |         | RBS-632 |
| - Support for lossless SRNS         |             | FALSE                                                                                            |         | RBS-633 |
| relocation                          |             |                                                                                                  |         |         |
| - Max PDCP SN window size           |             | Not present                                                                                      |         | RBS-634 |
| - PDCP PDU header                   |             | Absent                                                                                           |         | RBS-635 |
| - Header compression                |             | Not present                                                                                      |         | RBS-636 |

| Information Element                 | Condition     | Value/remark                           | Version        | Index   |
|-------------------------------------|---------------|----------------------------------------|----------------|---------|
| information                         |               |                                        |                |         |
| - CHOICE RLC info type              |               | RLC info                               |                | RBS-637 |
| - CHOICE Uplink RLC mode            |               | AM RLC                                 |                | RBS-638 |
| - Transmission RLC discard          |               |                                        |                | RBS-639 |
| - CHOICE SDU discard mode           |               | No Discard                             |                | RBS-640 |
| - MAX_DAT                           |               | 15                                     |                | RBS-641 |
| - Transmission window size          |               | 256                                    |                | RBS-642 |
| - Timer_RST                         |               | 500                                    |                | RBS-643 |
| - Max_RST                           |               | 4                                      |                | RBS-644 |
| - Polling info                      |               |                                        |                | RBS-645 |
| - Timer_poll_prohibit               |               | 100                                    |                | RBS-646 |
| - Timer_poll                        |               | 100                                    |                | RBS-647 |
| - Poll_PDU                          |               | Not Present                            |                | RBS-648 |
| - Poll_SDU                          |               | 1                                      |                | RBS-649 |
| - Last transmission PDU poll        |               | TRUE                                   |                | RBS-650 |
| - Last retransmission PDU poll      |               | TRUE                                   |                | RBS-651 |
| - Poll_Windows                      |               | 99                                     |                | RBS-652 |
| - Timer_poll_periodic               |               | Not Present                            |                | RBS-653 |
| - CHOICE Downlink RLC mode          |               | AM RLC                                 |                | RBS-654 |
| - CHOICE Downlink RLC PDU           |               | Reference to clause 6 Parameter Set    |                | RBS-655 |
| Size                                |               |                                        |                |         |
| - In-sequence delivery              |               | TRUE                                   |                | RBS-656 |
| - Receiving window size             |               | 768                                    |                | RBS-657 |
| - Downlink RLC status info          |               |                                        |                | RBS-658 |
| - Timer_status_prohibit             |               | 100                                    |                | RBS-659 |
| - Timer_EPC                         |               | Not Present                            |                | RBS-660 |
| - Missing PDU indicator             |               | TRUE                                   |                | RBS-661 |
| - Timer_STATUS_periodic             |               | Not Present                            |                | RBS-662 |
| - One sided RLC re-                 |               | FALSE                                  |                | RBS-663 |
| establishment                       |               |                                        |                |         |
| - RB mapping info                   |               |                                        |                | RBS-664 |
| - Information for each multiplexing |               | 1 RBMuxOption                          |                | RBS-665 |
| option                              |               |                                        |                |         |
| - RLC logical channel mapping       |               | Not Present                            |                | RBS-666 |
| indicator                           |               |                                        |                |         |
| - Number of uplink RLC logical      |               | 1                                      |                | RBS-667 |
| channels                            |               |                                        |                |         |
| - Uplink transport channel type     |               | E-DCH                                  |                | RBS-668 |
| - Logical channel identity          |               | 8                                      |                | RBS-669 |
| - E-DCH MAC-d flow identity         |               | 3                                      |                | RBS-670 |
| - CHOICE RLC PDU size               | MAC-I-FIXED   | Fixed size                             | Rel-8          | RBS-671 |
| - DDI                               |               | 6                                      |                | RBS-672 |
| - RLC PDU size list                 |               | 1 RLC PDU size                         |                | RBS-673 |
| - RLC PDU size                      |               | 336 bits                               |                | RBS-674 |
| - CHOICE RLC PDU size               | MAC-I-FLEX    | Flexible size                          | Rel-8          | RBS-675 |
| - Length indicator size             |               | - 15 bit                               |                | RBS-676 |
| - Minimum UL RLC PDU size           |               | See clause 6.10                        |                | RBS-677 |
| - Largest UL RLC PDU size           |               | See clause 6.10                        |                | RBS-678 |
| - Include in scheduling info        |               | TRUE                                   |                | RBS-679 |
| - MAC logical channel priority      |               | 8                                      |                | RBS-680 |
| - Downlink RLC logical channel      |               |                                        |                | RBS-681 |
| info                                |               |                                        |                |         |
| - Number of downlink RLC            |               | 1                                      |                | RBS-682 |
| logical channels                    |               |                                        |                |         |
| - Downlink transport channel        |               | HS-DSCH                                |                | RBS-683 |
| type                                |               |                                        |                |         |
| - DL DCH Transport channel          |               | Not present                            |                | RBS-684 |
| identity                            |               |                                        |                |         |
| - DL DSCH Transport channel         |               | Not present                            |                | RBS-685 |
| identity                            |               |                                        |                |         |
| - DL HS-DSCH MAC-d flow             |               | 2                                      |                | RBS-686 |
| identity                            |               |                                        |                |         |
| - Logical channel identity          |               | Not Present                            |                | RBS-687 |
| - RAB information for setup         | A16<br>, A19b |                                        | Rel-6<br>Rel-7 | RBS-688 |
| - RAB info                          |               | (Conversational UM DTCH for PS domain) |                | RBS-689 |



| Information Element                        | Condition   | Value/remark                                                                                                   | Version | Index   |
|--------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------|---------|---------|
| - RAB identity                             | MAC-I-FIXED | 0000 0110B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. | Rel-8   | RBS-690 |
| - CN domain identity                       |             | PS domain                                                                                                      |         | RBS-691 |
| - NAS Synchronization Indicator            |             | Not Present                                                                                                    |         | RBS-692 |
| - Re-establishment timer                   |             | useT314                                                                                                        |         | RBS-693 |
| - RB information to setup                  |             |                                                                                                                |         | RBS-694 |
| - RB identity                              |             | 27                                                                                                             |         | RBS-695 |
| - PDCP info                                |             |                                                                                                                |         | RBS-696 |
| - Support for lossless SRNS relocation     |             | FALSE                                                                                                          |         | RBS-697 |
| - Max PDCP SN window size                  |             | Not present                                                                                                    |         | RBS-698 |
| - PDCP PDU header                          |             | Absent                                                                                                         |         | RBS-699 |
| - Header compression                       |             | Not present                                                                                                    |         | RBS-700 |
| - CHOICE RLC info type                     |             | RLC info                                                                                                       |         | RBS-701 |
| - CHOICE Uplink RLC mode                   |             | UM RLC                                                                                                         |         | RBS-702 |
| - Transmission RLC discard                 |             | Not present                                                                                                    |         | RBS-703 |
| - CHOICE Downlink RLC mode                 |             | UM RLC                                                                                                         |         | RBS-704 |
| - DL UM RLC LI size                        |             | 7                                                                                                              |         | RBS-705 |
| - DL Reception Window Size                 |             | 32                                                                                                             |         | RBS-706 |
| - One sided RLC re-establishment           |             | FALSE                                                                                                          |         | RBS-707 |
| - Alternative E-bit interpretation         |             | Not present                                                                                                    |         | RBS-708 |
| - RB mapping info                          |             |                                                                                                                |         | RBS-709 |
| - Information for each multiplexing option |             | 1 RBMuxOption                                                                                                  |         | RBS-710 |
| - RLC logical channel mapping indicator    |             | Not Present                                                                                                    |         | RBS-711 |
| - Number of uplink RLC logical channels    |             | 1                                                                                                              |         | RBS-712 |
| - Uplink transport channel type            |             | E-DCH                                                                                                          |         | RBS-713 |
| - Logical channel identity                 |             | 9                                                                                                              |         | RBS-714 |
| - E-DCH MAC-d flow identity                |             | 4                                                                                                              |         | RBS-715 |
| - CHOICE RLC PDU size                      |             | Fixed size                                                                                                     |         | RBS-716 |
| - DDI                                      |             | 7                                                                                                              |         | RBS-717 |
| - RLC PDU size list                        |             | 12 RLC PDU sizes                                                                                               |         | RBS-718 |
| - RLC PDU size                             |             | 96 bits                                                                                                        |         | RBS-719 |
| - RLC PDU size                             |             | 112 bits                                                                                                       |         | RBS-720 |
| - RLC PDU size                             |             | 144 bits                                                                                                       |         | RBS-721 |
| - RLC PDU size                             |             | 160 bits                                                                                                       |         | RBS-722 |
| - RLC PDU size                             |             | 176 bits                                                                                                       |         | RBS-723 |
| - RLC PDU size                             |             | 192 bits                                                                                                       |         | RBS-724 |
| - RLC PDU size                             |             | 208 bits                                                                                                       |         | RBS-725 |
| - RLC PDU size                             |             | 224 bits                                                                                                       |         | RBS-726 |
| - RLC PDU size                             |             | 288 bits                                                                                                       |         | RBS-727 |
| - RLC PDU size                             |             | 296 bits                                                                                                       |         | RBS-728 |
| - RLC PDU size                             |             | 312 bits                                                                                                       |         | RBS-729 |
| - RLC PDU size                             |             | 336 bits                                                                                                       |         | RBS-730 |
| - CHOICE RLC PDU size                      | MAC-I-FLEX  | Flexible size                                                                                                  | Rel-8   | RBS-731 |
| - Length indicator size                    |             | Not present                                                                                                    |         | RBS-732 |
| - Minimum UL RLC PDU size                  |             | See clause 6.10                                                                                                |         | RBS-733 |
| - Largest UL RLC PDU size                  |             | See clause 6.10                                                                                                |         | RBS-734 |
| - Include in scheduling info               |             | TRUE                                                                                                           |         | RBS-735 |
| - MAC logical channel priority             |             | 8                                                                                                              |         | RBS-736 |
| - Downlink RLC logical channel info        |             |                                                                                                                |         | RBS-737 |
| - Number of downlink RLC logical channels  |             | 1                                                                                                              |         | RBS-738 |
| - Downlink transport channel type          |             | HS-DSCH                                                                                                        |         | RBS-739 |
| - DL DCH Transport channel identity        |             | Not present                                                                                                    |         | RBS-740 |
| - DL DSCH Transport channel identity       |             | Not present                                                                                                    |         | RBS-741 |
| - DL HS-DSCH MAC-d flow                    |             | 3                                                                                                              |         | RBS-742 |

| Information Element                 | Condition              | Value/remark                                                                                                        | Version        | Index              |
|-------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------|----------------|--------------------|
| identity                            |                        |                                                                                                                     |                |                    |
| - Logical channel identity          |                        | Not Present                                                                                                         |                | RBS-743            |
| - RAB information for setup         | A17, A17a<br>A25a, A28 |                                                                                                                     | Rel-7<br>Rel-8 | RBS-744<br>RBS-745 |
| - RAB info                          |                        | (high-speed AM DTCH for PS domain)<br>0000 0101B                                                                    |                | RBS-746            |
| - RAB identity                      |                        | The first/ leftmost bit of the bit string<br>contains the most significant bit of the<br>RAB identity.<br>PS domain |                | RBS-747            |
| - CN domain identity                |                        | Not Present                                                                                                         |                | RBS-748            |
| - NAS Synchronization Indicator     |                        | useT315                                                                                                             |                | RBS-749            |
| - Re-establishment timer            |                        | 25                                                                                                                  |                | RBS-750            |
| - RB information to setup           |                        | FALSE                                                                                                               |                | RBS-751            |
| - RB identity                       |                        |                                                                                                                     |                | RBS-752            |
| - PDCP info                         |                        |                                                                                                                     |                | RBS-753            |
| - Support for lossless SRNS         |                        |                                                                                                                     |                | RBS-754            |
| relocation                          |                        |                                                                                                                     |                |                    |
| - Max PDCP SN window size           |                        | Not present                                                                                                         |                | RBS-755            |
| - PDCP PDU header                   |                        | Absent                                                                                                              |                | RBS-756            |
| - Header compression                |                        | Not present                                                                                                         |                | RBS-757            |
| information                         |                        |                                                                                                                     |                |                    |
| - CHOICE RLC info type              |                        | RLC info                                                                                                            |                | RBS-758            |
| - CHOICE Uplink RLC mode            |                        | AM RLC                                                                                                              |                | RBS-759            |
| - Transmission RLC discard          |                        |                                                                                                                     |                | RBS-760            |
| - CHOICE SDU discard mode           |                        | No Discard                                                                                                          |                | RBS-761            |
| - MAX_DAT                           |                        | 15                                                                                                                  |                | RBS-762            |
| - Transmission window size          |                        | 128                                                                                                                 |                | RBS-763            |
| - Timer_RST                         |                        | 500                                                                                                                 |                | RBS-764            |
| - Max_RST                           |                        | 4                                                                                                                   |                | RBS-765            |
| - Polling info                      |                        |                                                                                                                     |                | RBS-766            |
| - Timer_poll_prohibit               |                        | 100                                                                                                                 |                | RBS-767            |
| - Timer_poll                        |                        | 100                                                                                                                 |                | RBS-768            |
| - Poll_PDU                          |                        | Not Present                                                                                                         |                | RBS-769            |
| - Poll_SDU                          |                        | 1                                                                                                                   |                | RBS-770            |
| - Last transmission PDU poll        |                        | TRUE                                                                                                                |                | RBS-771            |
| - Last retransmission PDU poll      |                        | TRUE                                                                                                                |                | RBS-772            |
| - Poll_Windows                      |                        | 99                                                                                                                  |                | RBS-773            |
| - Timer_poll_periodic               |                        | Not Present                                                                                                         |                | RBS-774            |
| - CHOICE Downlink RLC mode          |                        | AM RLC                                                                                                              |                | RBS-775            |
| - CHOICE Downlink RLC PDU           |                        | Reference to clause 6 Parameter Set                                                                                 |                | RBS-776            |
| Size                                |                        |                                                                                                                     |                |                    |
| - Length indicator size             |                        | This IE is present and set to "7" if<br>Downlink RLC PDU Size is set to<br>"Flexible"                               |                | RBS-777            |
| - In-sequence delivery              |                        | TRUE                                                                                                                |                | RBS-778            |
| - Receiving window size             |                        | 768                                                                                                                 |                | RBS-779            |
| - Downlink RLC status info          |                        |                                                                                                                     |                | RBS-780            |
| - Timer_status_prohibit             |                        | 100                                                                                                                 |                | RBS-781            |
| - Timer_EPC                         |                        | Not Present                                                                                                         |                | RBS-782            |
| - Missing PDU indicator             |                        | TRUE                                                                                                                |                | RBS-783            |
| - Timer_STATUS_periodic             |                        | Not Present                                                                                                         |                | RBS-784            |
| - One sided RLC re-                 |                        | FALSE                                                                                                               |                | RBS-785            |
| establishment                       |                        |                                                                                                                     |                |                    |
| - Alternative E-bit interpretation  |                        | Not present                                                                                                         |                | RBS-786            |
| - Use special value of HE field     |                        | TRUE                                                                                                                |                | RBS-787            |
| - RB mapping info                   |                        |                                                                                                                     |                | RBS-788            |
| - Information for each multiplexing |                        | 1 RBMuxOption                                                                                                       |                | RBS-789            |
| option                              |                        |                                                                                                                     |                |                    |
| - RLC logical channel mapping       |                        | Not present                                                                                                         |                | RBS-790            |
| indicator                           |                        |                                                                                                                     |                |                    |
| - Number of uplink RLC logical      |                        | 1                                                                                                                   |                | RBS-791            |
| channels                            |                        |                                                                                                                     |                |                    |
| - Uplink transport channel type     |                        | DCH                                                                                                                 |                | RBS-792            |
| - UL Transport channel identity     |                        | 1                                                                                                                   |                | RBS-793            |
| - Logical channel identity          |                        | Not Present                                                                                                         |                | RBS-794            |
| - CHOICE RLC size list              |                        | Configured                                                                                                          |                | RBS-795            |
| - MAC logical channel priority      |                        | 8                                                                                                                   |                | RBS-796            |

| Information Element                | Condition                           | Value/remark                                                                                     | Version | Index   |
|------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------|---------|---------|
| info                               |                                     |                                                                                                  |         | RBS-797 |
| - Downlink RLC logical channel     |                                     |                                                                                                  |         |         |
| logical channels                   |                                     | 1                                                                                                |         | RBS-798 |
| type                               |                                     | HS-DSCH                                                                                          |         | RBS-799 |
| - DL DCH Transport channel         |                                     | Not present                                                                                      |         | RBS-800 |
| identity                           |                                     |                                                                                                  |         |         |
| - DL DSCH Transport channel        |                                     | Not present                                                                                      |         | RBS-801 |
| identity                           |                                     |                                                                                                  |         |         |
| - CHOICE <i>DL MAC header type</i> |                                     | MAC-ehs                                                                                          |         | RBS-802 |
| - DL HS-DSCH MAC-ehs               |                                     | 0                                                                                                |         | RBS-803 |
| Queue Id                           |                                     |                                                                                                  |         |         |
| - Logical channel identity         |                                     | 7                                                                                                |         | RBS-804 |
| - RAB information for setup        | A17b, A17c,A17d,<br>A17e, A17f,A28a |                                                                                                  | Rel-7   | RBS-805 |
| - RAB info                         |                                     | (high-speed AM DTCH for PS domain)                                                               |         | RBS-806 |
| - RAB identity                     |                                     | 0000 0101B                                                                                       |         | RBS-807 |
|                                    |                                     | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |         |
| - CN domain identity               |                                     | PS domain                                                                                        |         | RBS-808 |
| - NAS Synchronization Indicator    |                                     | Not Present                                                                                      |         | RBS-809 |
| - Re-establishment timer           |                                     | useT315                                                                                          |         | RBS-810 |
| - RB information to setup          |                                     |                                                                                                  |         | RBS-811 |
| - RB identity                      |                                     | 25                                                                                               |         | RBS-812 |
| - PDCP info                        |                                     |                                                                                                  |         | RBS-813 |
| - Support for lossless SRNS        |                                     | FALSE                                                                                            |         | RBS-814 |
| relocation                         |                                     |                                                                                                  |         |         |
| - Max PDCP SN window size          |                                     | Not present                                                                                      |         | RBS-815 |
| - PDCP PDU header                  |                                     | Absent                                                                                           |         | RBS-816 |
| - Header compression               |                                     | Not present                                                                                      |         | RBS-817 |
| information                        |                                     |                                                                                                  |         |         |
| - CHOICE RLC info type             |                                     | RLC info                                                                                         |         | RBS-818 |
| - CHOICE Uplink RLC mode           |                                     | AM RLC                                                                                           |         | RBS-819 |
| - Transmission RLC discard         |                                     |                                                                                                  |         | RBS-820 |
| - CHOICE SDU discard mode          |                                     | No Discard                                                                                       |         | RBS-821 |
| - MAX_DAT                          |                                     | 15                                                                                               |         | RBS-822 |
| - Transmission window size         |                                     | 256                                                                                              |         | RBS-823 |
| - Timer_RST                        |                                     | 500                                                                                              |         | RBS-824 |
| - Max_RST                          |                                     | 4                                                                                                |         | RBS-825 |
| - Polling info                     |                                     |                                                                                                  |         | RBS-826 |
| - Timer_poll_prohibit              |                                     | 100                                                                                              |         | RBS-827 |
| - Timer_poll                       |                                     | 100                                                                                              |         | RBS-828 |
| - Poll_PDU                         |                                     | Not Present                                                                                      |         | RBS-829 |
| - Poll_SDU                         |                                     | 1                                                                                                |         | RBS-830 |
| - Last transmission PDU poll       |                                     | TRUE                                                                                             |         | RBS-831 |
| - Last retransmission PDU poll     |                                     | TRUE                                                                                             |         | RBS-832 |
| - Poll_Windows                     |                                     | 99                                                                                               |         | RBS-833 |
| - Timer_poll_periodic              |                                     | Not Present                                                                                      |         | RBS-834 |
| - CHOICE Downlink RLC mode         |                                     | AM RLC                                                                                           |         | RBS-835 |
| - CHOICE Downlink RLC PDU          |                                     | Reference to clause 6 Parameter Set                                                              |         | RBS-836 |
| Size                               |                                     |                                                                                                  |         |         |
| - Length indicator size            |                                     | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible"                  |         | RBS-837 |
|                                    |                                     |                                                                                                  |         |         |
| - In-sequence delivery             |                                     | TRUE                                                                                             |         | RBS-838 |
| - Receiving window size            |                                     | 768                                                                                              |         | RBS-839 |
| - Downlink RLC status info         |                                     |                                                                                                  |         | RBS-840 |
| - Timer_status_prohibit            |                                     | 100                                                                                              |         | RBS-841 |
| - Timer_EPC                        |                                     | Not Present                                                                                      |         | RBS-842 |
| - Missing PDU indicator            |                                     | TRUE                                                                                             |         | RBS-843 |
| - Timer_STATUS_periodic            |                                     | Not Present                                                                                      |         | RBS-844 |
| - One sided RLC re-                |                                     | FALSE                                                                                            |         | RBS-845 |
| establishment                      |                                     |                                                                                                  |         |         |
| - Alternative E-bit interpretation |                                     | Not present                                                                                      |         | RBS-846 |
| - Use special value of HE field    |                                     | TRUE                                                                                             |         | RBS-847 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Condition   | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                 | Version | Index   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| option<br>indicator<br>channels<br>info<br>logical channels<br>type<br>identity<br>identity<br>Queue Id<br>- Logical channel identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MAC-I-FIXED | 1 RBMuxOption                                                                                                                                                                                                                                                                                                                                                                                                                | Rel-8   | RBS-848 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-849 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                  |         | RBS-850 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 1                                                                                                                                                                                                                                                                                                                                                                                                                            |         | RBS-851 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | E-DCH                                                                                                                                                                                                                                                                                                                                                                                                                        |         | RBS-852 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 7                                                                                                                                                                                                                                                                                                                                                                                                                            |         | RBS-853 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 2                                                                                                                                                                                                                                                                                                                                                                                                                            |         | RBS-854 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | Fixed size                                                                                                                                                                                                                                                                                                                                                                                                                   |         | RBS-855 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 5                                                                                                                                                                                                                                                                                                                                                                                                                            |         | RBS-856 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 1 RLC PDU size                                                                                                                                                                                                                                                                                                                                                                                                               |         | RBS-857 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MAC-I-FLEX  | 336 bits                                                                                                                                                                                                                                                                                                                                                                                                                     | RBS-858 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | Flexible size                                                                                                                                                                                                                                                                                                                                                                                                                | RBS-859 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | - 15 bit                                                                                                                                                                                                                                                                                                                                                                                                                     | RBS-860 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | See clause 6.10                                                                                                                                                                                                                                                                                                                                                                                                              | RBS-861 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | See clause 6.10                                                                                                                                                                                                                                                                                                                                                                                                              | RBS-862 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                         | RBS-863 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 8                                                                                                                                                                                                                                                                                                                                                                                                                            | RBS-864 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              | RBS-865 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | 1                                                                                                                                                                                                                                                                                                                                                                                                                            | RBS-866 |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | HS-DSCH                                                                                                                                                                                                                                                                                                                                                                                                                      | RBS-867 |         |
| Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RBS-868     |                                                                                                                                                                                                                                                                                                                                                                                                                              |         |         |
| Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RBS-869     |                                                                                                                                                                                                                                                                                                                                                                                                                              |         |         |
| MAC-ehs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RBS-870     |                                                                                                                                                                                                                                                                                                                                                                                                                              |         |         |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RBS-871     |                                                                                                                                                                                                                                                                                                                                                                                                                              |         |         |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | RBS-872                                                                                                                                                                                                                                                                                                                                                                                                                      |         |         |
| - RAB information for setup<br>- RAB info<br>- RAB identity<br><br>- CN domain identity<br>- NAS Synchronization Indicator<br>- Re-establishment timer<br>- RB information to setup<br>- RB identity<br>- PDCP info<br>- Support for lossless SRNS<br>relocation<br>- Max PDCP SN window size<br>- PDCP PDU header<br>- Header compression<br>information<br>- CHOICE RLC info type<br>- CHOICE Uplink RLC mode<br>- Transmission RLC discard<br>- CHOICE Downlink RLC mode<br>- DL UM RLC LI size<br>- DL Reception Window Size<br>- One sided RLC re-establishment<br>- Alternative E-bit interpretation<br>- Use special value of HE field<br>- RB mapping info<br>- Information for each multiplexing<br>option<br>- RLC logical channel mapping<br>indicator<br>- Number of uplink RLC logical | A18         | (high-speed UM DTCH for PS domain)<br>0000 0101B<br>The first/ leftmost bit of the bit string<br>contains the most significant bit of the<br>RAB identity.<br>PS domain<br>Not Present<br>useT315<br><br>25<br><br>FALSE<br><br>Not present<br>Absent<br>Not present<br><br>RLC info<br>UM RLC<br>Not present<br>UM RLC<br>7<br>Not present<br>FALSE<br>TRUE<br>Not present<br><br>1 RBMuxOption<br><br>Not present<br><br>1 | Rel-7   | RBS-873 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-874 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-875 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-876 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-877 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-878 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-879 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-880 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-881 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-882 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-883 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-884 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-885 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-886 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-887 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-888 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-889 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-890 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-891 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-892 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-893 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-894 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-895 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-896 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-897 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                                                                                              |         | RBS-898 |

| Information Element                | Condition | Value/remark                                                                                     | Version | Index   |
|------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|---------|
| channels                           |           |                                                                                                  |         |         |
| - Uplink transport channel type    |           | DCH                                                                                              |         | RBS-899 |
| - UL Transport channel identity    |           | 1                                                                                                |         | RBS-900 |
| - Logical channel identity         |           | Not Present                                                                                      |         | RBS-901 |
| - CHOICE RLC size list             |           | Configured                                                                                       |         | RBS-902 |
| - MAC logical channel priority     |           | 8                                                                                                |         | RBS-903 |
| - Downlink RLC logical channel     |           |                                                                                                  |         | RBS-904 |
| info                               |           |                                                                                                  |         |         |
| - Number of downlink RLC           |           | 1                                                                                                |         | RBS-905 |
| logical channels                   |           |                                                                                                  |         |         |
| - Downlink transport channel       |           | HS-DSCH                                                                                          |         | RBS-906 |
| type                               |           |                                                                                                  |         |         |
| - DL DCH Transport channel         |           | Not present                                                                                      |         | RBS-907 |
| identity                           |           |                                                                                                  |         |         |
| - DL DSCH Transport channel        |           | Not present                                                                                      |         | RBS-908 |
| identity                           |           |                                                                                                  |         |         |
| - CHOICE <i>DL MAC header type</i> |           | MAC-ehs                                                                                          |         | RBS-909 |
| - DL HS-DSCH MAC-ehs               |           | 0                                                                                                |         | RBS-910 |
| Queue Id                           |           |                                                                                                  |         |         |
| - Logical channel identity         |           | 7                                                                                                |         | RBS-911 |
| - RAB information for setup        | ,A20, A21 |                                                                                                  | Rel-7   | RBS-912 |
| - RAB info                         |           | (high-speed AM DTCH for PS domain)                                                               |         | RBS-913 |
| - RAB identity                     |           | 0000 0101B                                                                                       |         | RBS-914 |
|                                    |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |         |
| - CN domain identity               |           | PS domain                                                                                        |         | RBS-915 |
| - NAS Synchronization Indicator    |           | Not Present                                                                                      |         | RBS-916 |
| - Re-establishment timer           |           | useT315                                                                                          |         | RBS-917 |
| - RB information to setup          |           |                                                                                                  |         | RBS-918 |
| - RB identity                      |           | 25                                                                                               |         | RBS-919 |
| - PDCP info                        |           |                                                                                                  |         | RBS-920 |
| - Support for lossless SRNS        |           | FALSE                                                                                            |         | RBS-921 |
| relocation                         |           |                                                                                                  |         |         |
| - Max PDCP SN window size          |           | Not present                                                                                      |         | RBS-922 |
| - PDCP PDU header                  |           | Absent                                                                                           |         | RBS-923 |
| - Header compression               |           | Not present                                                                                      |         | RBS-924 |
| information                        |           |                                                                                                  |         |         |
| - CHOICE RLC info type             |           | RLC info                                                                                         |         | RBS-925 |
| - CHOICE Uplink RLC mode           |           | AM RLC                                                                                           |         | RBS-926 |
| - Transmission RLC discard         |           |                                                                                                  |         | RBS-927 |
| - CHOICE SDU discard mode          |           | No Discard                                                                                       |         | RBS-928 |
| - MAX_DAT                          |           | 15                                                                                               |         | RBS-929 |
| - Transmission window size         |           | 256                                                                                              |         | RBS-930 |
| - Timer_RST                        |           | 500                                                                                              |         | RBS-931 |
| - Max_RST                          |           | 4                                                                                                |         | RBS-932 |
| - Polling info                     |           |                                                                                                  |         | RBS-933 |
| - Timer_poll_prohibit              |           | 100                                                                                              |         | RBS-934 |
| - Timer_poll                       |           | 100                                                                                              |         | RBS-935 |
| - Poll_PDU                         |           | Not Present                                                                                      |         | RBS-936 |
| - Poll_SDU                         |           | 1                                                                                                |         | RBS-937 |
| - Last transmission PDU poll       |           | TRUE                                                                                             |         | RBS-938 |
| - Last retransmission PDU poll     |           | TRUE                                                                                             |         | RBS-939 |
| - Poll_Windows                     |           | 99                                                                                               |         | RBS-940 |
| - Timer_poll_periodic              |           | Not Present                                                                                      |         | RBS-941 |
| - CHOICE Downlink RLC mode         |           | AM RLC                                                                                           |         | RBS-942 |
| - CHOICE Downlink RLC PDU          |           | Reference to clause 6 Parameter Set                                                              |         | RBS-943 |
| Size                               |           |                                                                                                  |         |         |
| - In-sequence delivery             |           | TRUE                                                                                             |         | RBS-944 |
| - Receiving window size            |           | 768                                                                                              |         | RBS-945 |
| - Downlink RLC status info         |           |                                                                                                  |         | RBS-946 |
| - Timer_status_prohibit            |           | 100                                                                                              |         | RBS-947 |
| - Timer_EPC                        |           | Not Present                                                                                      |         | RBS-948 |
| - Missing PDU indicator            |           | TRUE                                                                                             |         | RBS-949 |
| - Timer_STATUS_periodic            |           | Not Present                                                                                      |         | RBS-950 |
| - One sided RLC re-                |           | FALSE                                                                                            |         | RBS-951 |
| establishment                      |           |                                                                                                  |         |         |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Condition   | Value/remark                                                                                     | Version | Index    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size</li> <li>- DDI</li> <li>- RLC PDU size list</li> <li>- RLC PDU size</li> <li>- CHOICE RLC PDU size</li> <li>- Length indicator size</li> <li>- Minimum UL RLC PDU size</li> <li>- Largest UL RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of downlink RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i></li> <li>- DL HS-DSCH MAC-d flow identity</li> <li>- Logical channel identity</li> </ul> | MAC-I-FIXED | 1 RBMuxOption                                                                                    | Rel-8   | RBS-952  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not Present                                                                                      |         | RBS-953  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not Present                                                                                      |         | RBS-954  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 1                                                                                                |         | RBS-955  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | E-DCH                                                                                            |         | RBS-956  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 7                                                                                                |         | RBS-957  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 2                                                                                                |         | RBS-958  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Fixed size                                                                                       |         | RBS-959  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 5                                                                                                |         | RBS-960  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 1 RLC PDU size                                                                                   |         | RBS-961  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MAC-I-FLEX  | 336 bits                                                                                         | Rel-8   | RBS-962  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Flexible size                                                                                    |         | RBS-963  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | - 15 bit                                                                                         |         | RBS-964  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | See clause 6.10                                                                                  |         | RBS-965  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | See clause 6.10                                                                                  |         | RBS-966  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | TRUE                                                                                             |         | RBS-967  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 8                                                                                                |         | RBS-968  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                                                                                                  |         | RBS-969  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 1                                                                                                |         | RBS-970  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | HS-DSCH                                                                                          |         | RBS-971  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not present                                                                                      |         | RBS-972  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not present                                                                                      |         | RBS-973  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | MAC-hs                                                                                           |         | RBS-974  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 0                                                                                                |         | RBS-975  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not Present                                                                                      |         | RBS-976  |
| <ul style="list-style-type: none"> <li>- RAB information for setup</li> <li>- RAB info</li> <li>- RAB identity</li> <li>- CN domain identity</li> <li>- NAS Synchronization Indicator</li> <li>- Re-establishment timer</li> <li>- RB information to setup</li> <li>- RB identity</li> <li>- PDCP info</li> <li>- Support for lossless SRNS relocation</li> <li>- Max PDCP SN window size</li> <li>- PDCP PDU header</li> <li>- Header compression</li> <li>- CHOICE RLC info type</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- CHOICE Downlink RLC mode</li> <li>- DL UM RLC LI size</li> <li>- DL Reception Window Size</li> <li>- One sided RLC re-establishment</li> <li>- Alternative E-bit interpretation</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> </ul>                                                                                                                                     | A21         | (Conversational UM DTCH for PS domain)                                                           | Rel-7   | RBS-977  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 0000 0110B                                                                                       |         | RBS-978  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS-979  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | PS domain                                                                                        |         | RBS-980  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not Present                                                                                      |         | RBS-981  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | useT314                                                                                          |         | RBS-982  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 27                                                                                               |         | RBS-983  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | FALSE                                                                                            |         | RBS-984  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not present                                                                                      |         | RBS-985  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Absent                                                                                           |         | RBS-986  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not present                                                                                      |         | RBS-987  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not present                                                                                      |         | RBS-988  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not present                                                                                      |         | RBS-989  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | RLC info                                                                                         |         | RBS-990  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | UM RLC                                                                                           |         | RBS-991  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not present                                                                                      |         | RBS-992  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | UM RLC                                                                                           |         | RBS-993  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 7                                                                                                |         | RBS-994  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 32                                                                                               |         | RBS-995  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | FALSE                                                                                            |         | RBS-996  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not present                                                                                      |         | RBS-997  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not present                                                                                      |         | RBS-998  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | 1 RBMuxOption                                                                                    |         | RBS-999  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Not Present                                                                                      |         | RBS-1000 |

| Information Element                       | Condition   | Value/remark                                                                                                                                                                                                                                                                                                                                                   | Version | Index    |
|-------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| - Number of uplink RLC logical channels   | MAC-I-FIXED | 1                                                                                                                                                                                                                                                                                                                                                              | Rel-8   | RBS-1001 |
| - Uplink transport channel type           |             | E-DCH                                                                                                                                                                                                                                                                                                                                                          |         | RBS-1002 |
| - Logical channel identity                |             | 9                                                                                                                                                                                                                                                                                                                                                              |         | RBS-1003 |
| - E-DCH MAC-d flow identity               |             | 4                                                                                                                                                                                                                                                                                                                                                              |         | RBS-1004 |
| - CHOICE RLC PDU size                     |             | Fixed size                                                                                                                                                                                                                                                                                                                                                     |         | RBS-1005 |
| - DDI                                     |             | 7                                                                                                                                                                                                                                                                                                                                                              |         | RBS-1006 |
| - RLC PDU size list                       |             | 12 RLC PDU sizes                                                                                                                                                                                                                                                                                                                                               |         | RBS-1007 |
| - RLC PDU size                            |             | 96 bits                                                                                                                                                                                                                                                                                                                                                        |         | RBS-1008 |
| - RLC PDU size                            |             | 112 bits                                                                                                                                                                                                                                                                                                                                                       |         | RBS-1009 |
| - RLC PDU size                            |             | 144 bits                                                                                                                                                                                                                                                                                                                                                       |         | RBS-1010 |
| - RLC PDU size                            |             | 160 bits                                                                                                                                                                                                                                                                                                                                                       |         | RBS-1011 |
| - RLC PDU size                            |             | 176 bits                                                                                                                                                                                                                                                                                                                                                       |         | RBS-1012 |
| - RLC PDU size                            |             | 192 bits                                                                                                                                                                                                                                                                                                                                                       |         | RBS-1013 |
| - RLC PDU size                            |             | 208 bits                                                                                                                                                                                                                                                                                                                                                       |         | RBS-1014 |
| - RLC PDU size                            |             | 224 bits                                                                                                                                                                                                                                                                                                                                                       |         | RBS-1015 |
| - RLC PDU size                            |             | 288 bits                                                                                                                                                                                                                                                                                                                                                       |         | RBS-1016 |
| - RLC PDU size                            |             | 296 bits                                                                                                                                                                                                                                                                                                                                                       |         | RBS-1017 |
| - RLC PDU size                            |             | 312 bits                                                                                                                                                                                                                                                                                                                                                       |         | RBS-1018 |
| - RLC PDU size                            |             | 336 bits                                                                                                                                                                                                                                                                                                                                                       |         | RBS-1019 |
| - CHOICE RLC PDU size                     | MAC-I-FLEX  | Flexible size                                                                                                                                                                                                                                                                                                                                                  | Rel-8   | RBS-1020 |
| - Length indicator size                   |             | Not present                                                                                                                                                                                                                                                                                                                                                    |         | RBS-1021 |
| - Minimum UL RLC PDU size                 |             | See clause 6.10                                                                                                                                                                                                                                                                                                                                                |         | RBS-1022 |
| - Largest UL RLC PDU size                 |             | See clause 6.10                                                                                                                                                                                                                                                                                                                                                |         | RBS-1023 |
| - Include in scheduling info              |             | TRUE                                                                                                                                                                                                                                                                                                                                                           |         | RBS-1024 |
| - MAC logical channel priority            |             | 8                                                                                                                                                                                                                                                                                                                                                              |         | RBS-1025 |
| - Downlink RLC logical channel info       |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1026 |
| - Number of downlink RLC logical channels |             | 1                                                                                                                                                                                                                                                                                                                                                              |         | RBS-1027 |
| - Downlink transport channel type         |             | HS-DSCH                                                                                                                                                                                                                                                                                                                                                        |         | RBS-1028 |
| - DL DCH Transport channel identity       |             | Not present                                                                                                                                                                                                                                                                                                                                                    |         | RBS-1029 |
| - DL DSCH Transport channel identity      |             | Not present                                                                                                                                                                                                                                                                                                                                                    |         | RBS-1030 |
| - CHOICE DL MAC header type               |             | MAC-hs                                                                                                                                                                                                                                                                                                                                                         |         | RBS-1031 |
| - DL HS-DSCH MAC-d flow identity          |             | 3                                                                                                                                                                                                                                                                                                                                                              |         | RBS-1032 |
| - Logical channel identity                |             | Not Present                                                                                                                                                                                                                                                                                                                                                    |         | RBS-1033 |
| - RAB information for setup               | A22         | (second high-speed UM DTCH for PS domain)<br>0000 0110B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.<br>PS domain<br>Not Present<br>useT315<br><br>27<br><br>FALSE<br><br>Not present<br>Absent<br>Not present<br><br>RLC info<br>UM RLC<br>Not present<br>UM RLC<br>15<br>Not present<br>FALSE<br>TRUE | Rel-7   | RBS-1034 |
| - RAB info                                |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1035 |
| - RAB identity                            |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1036 |
| - CN domain identity                      |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1037 |
| - NAS Synchronization Indicator           |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1038 |
| - Re-establishment timer                  |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1039 |
| - RB information to setup                 |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1040 |
| - RB identity                             |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1041 |
| - PDCP info                               |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1042 |
| - Support for lossless SRNS relocation    |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1043 |
| - Max PDCP SN window size                 |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1044 |
| - PDCP PDU header                         |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1045 |
| - Header compression                      |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1046 |
| - CHOICE RLC info type                    |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1047 |
| - CHOICE Uplink RLC mode                  |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1048 |
| - Transmission RLC discard                |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1049 |
| - CHOICE Downlink RLC mode                |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1050 |
| - DL UM RLC LI size                       |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1051 |
| - DL Reception Window Size                |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1052 |
| - One sided RLC re-establishment          |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1053 |
| - Alternative E-bit interpretation        |             |                                                                                                                                                                                                                                                                                                                                                                |         | RBS-1054 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Condition                  | Value/remark                                                                                                                                                                                                                                                                                                                                                              | Version                 | Index                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>- Use special value of HE field</div> <div>- RB mapping info</div> <div>- Information for each multiplexing option</div> <div>- RLC logical channel mapping indicator</div> <div>- Number of uplink RLC logical channels</div> <div>- Uplink transport channel type</div> <div>- Logical channel identity</div> <div>- E-DCH MAC-d flow identity</div> <div>- CHOICE RLC PDU size</div> <div>- DDI</div> <div>- RLC PDU size list</div> <div>- CHOICE RLC PDU size</div> <div>- Length indicator size</div> <div>- Minimum UL RLC PDU size</div> <div>- Largest UL RLC PDU size</div> <div>- Include in scheduling info</div> <div>- MAC logical channel priority</div> <div>- Downlink RLC logical channel info</div> <div>- Number of downlink RLC logical channels</div> <div>- Downlink transport channel type</div> <div>- DL DCH Transport channel identity</div> <div>- DL DSCH Transport channel identity</div> <div>- CHOICE <i>DL MAC header type</i></div> <div>- DL HS-DSCH MAC-ehs</div> <div>Queue Id</div> <div>- Logical channel identity</div> | MAC-I-FIXED                | Not present                                                                                                                                                                                                                                                                                                                                                               | Rel-8                   | RBS-1055                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | 1 RB_MUXOption                                                                                                                                                                                                                                                                                                                                                            |                         | RBS-1056                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                                                                                                                                                                                                                                                                                                                                                                           |                         | RBS-1057                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | Not present                                                                                                                                                                                                                                                                                                                                                               |                         | RBS-1058                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | 1                                                                                                                                                                                                                                                                                                                                                                         |                         | RBS-1059                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | E-DCH                                                                                                                                                                                                                                                                                                                                                                     |                         | RBS-1060                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | 9                                                                                                                                                                                                                                                                                                                                                                         |                         | RBS-1061                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | 4                                                                                                                                                                                                                                                                                                                                                                         |                         | RBS-1062                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | Fixed size                                                                                                                                                                                                                                                                                                                                                                |                         | RBS-1063                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | 7                                                                                                                                                                                                                                                                                                                                                                         |                         | RBS-1064                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MAC-I-FLEX                 | See clause 6.10                                                                                                                                                                                                                                                                                                                                                           | RBS-1065                |                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | Flexible size                                                                                                                                                                                                                                                                                                                                                             | RBS-1066                |                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | 15 bit                                                                                                                                                                                                                                                                                                                                                                    | RBS-1067                |                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | See clause 6.10                                                                                                                                                                                                                                                                                                                                                           | RBS-1068                |                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | See clause 6.10                                                                                                                                                                                                                                                                                                                                                           | RBS-1069                |                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | TRUE                                                                                                                                                                                                                                                                                                                                                                      | RBS-1070                |                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | 8                                                                                                                                                                                                                                                                                                                                                                         | RBS-1071                |                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                                                                                                                                                                                                                                                                                                                                                                           | RBS-1072                |                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | 1                                                                                                                                                                                                                                                                                                                                                                         | RBS-1073                |                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | HS-DSCH                                                                                                                                                                                                                                                                                                                                                                   | RBS-1074                |                                                                                                                                                                                                                                                                                                                                                           |
| Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RBS-1075                   |                                                                                                                                                                                                                                                                                                                                                                           |                         |                                                                                                                                                                                                                                                                                                                                                           |
| Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RBS-1076                   |                                                                                                                                                                                                                                                                                                                                                                           |                         |                                                                                                                                                                                                                                                                                                                                                           |
| MAC-ehs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RBS-1077                   |                                                                                                                                                                                                                                                                                                                                                                           |                         |                                                                                                                                                                                                                                                                                                                                                           |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RBS-1078                   |                                                                                                                                                                                                                                                                                                                                                                           |                         |                                                                                                                                                                                                                                                                                                                                                           |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RBS-1079                   |                                                                                                                                                                                                                                                                                                                                                                           |                         |                                                                                                                                                                                                                                                                                                                                                           |
| <div>- RAB information for setup</div> <div>- RAB info</div> <div>- RAB identity</div> <div>- CN domain identity</div> <div>- NAS Synchronization Indicator</div> <div>- Re-establishment timer</div> <div>- RB information to setup</div> <div>- RB identity</div> <div>- PDCP info</div> <div>- Support for lossless SRNS relocation</div> <div>- Max PDCP SN window size</div> <div>- PDCP PDU header</div> <div>- Header compression information</div> <div>- CHOICE RLC info type</div> <div>- CHOICE Uplink RLC mode</div> <div>- Transmission RLC discard</div> <div>- CHOICE SDU discard mode</div> <div>- MAX_DAT</div> <div>- Transmission window size</div> <div>- Timer_RST</div> <div>- Max_RST</div> <div>- Polling info</div> <div>- Timer_poll_prohibit</div> <div>- Timer_poll</div> <div>- Poll_PDU</div> <div>- Poll_SDU</div>                                                                                                                                                                                                                    | A22<br>, A25, A25b<br>A25c | (high-speed AM DTCH for PS domain)<br>0000 0101B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.<br>PS domain<br>Not Present<br>useT315<br><br>25<br><br>FALSE<br><br>Not present<br>Absent<br>Not present<br><br>RLC info<br>AM RLC<br><br>No Discard<br>15<br>128<br>500<br>4<br><br>100<br>100<br>Not Present<br>1 | Rel-7<br>Rel-8<br>Rel-9 | RBS-1080<br>RBS-1081<br>RBS-1081a<br>RBS-1082<br>RBS-1083<br><br>RBS-1084<br>RBS-1085<br>RBS-1086<br>RBS-1087<br>RBS-1088<br>RBS-1089<br>RBS-1090<br><br>RBS-1091<br>RBS-1092<br>RBS-1093<br><br>RBS-1094<br>RBS-1095<br>RBS-1096<br>RBS-1097<br>RBS-1098<br>RBS-1099<br>RBS-1100<br>RBS-1101<br>RBS-1102<br>RBS-1103<br>RBS-1104<br>RBS-1105<br>RBS-1106 |



| Information Element                        | Condition   | Value/remark                                                                                     | Version        | Index    |
|--------------------------------------------|-------------|--------------------------------------------------------------------------------------------------|----------------|----------|
| Size                                       |             | TRUE                                                                                             |                | RBS-1107 |
|                                            |             | TRUE                                                                                             |                | RBS-1108 |
| - Last transmission PDU poll               |             | 99                                                                                               |                | RBS-1109 |
| - Last retransmission PDU poll             |             | Not Present                                                                                      |                | RBS-1110 |
| - Poll_Windows                             |             | AM RLC                                                                                           |                | RBS-1111 |
| - Timer_poll_periodic                      |             | Reference to clause 6 Parameter Set                                                              |                | RBS-1112 |
| - CHOICE Downlink RLC mode                 |             |                                                                                                  |                |          |
| - CHOICE Downlink RLC PDU                  |             |                                                                                                  |                |          |
| - Length indicator size                    |             | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible"                  |                | RBS-1113 |
| - In-sequence delivery                     |             | TRUE                                                                                             |                | RBS-1114 |
| - Receiving window size                    |             | 768                                                                                              |                | RBS-1115 |
| - Downlink RLC status info                 |             |                                                                                                  |                | RBS-1116 |
| - Timer_status_prohibit                    |             | 100                                                                                              |                | RBS-1117 |
| - Timer_EPC                                |             | Not Present                                                                                      |                | RBS-1118 |
| - Missing PDU indicator                    |             | TRUE                                                                                             |                | RBS-1119 |
| - Timer_STATUS_periodic                    |             | Not Present                                                                                      |                | RBS-1120 |
| - One sided RLC re-establishment           |             | FALSE                                                                                            |                | RBS-1121 |
| - Alternative E-bit interpretation         |             | Not present                                                                                      |                | RBS-1122 |
| - Use special value of HE field            |             | TRUE                                                                                             |                | RBS-1123 |
| - RB mapping info                          |             |                                                                                                  |                | RBS-1124 |
| - Information for each multiplexing option |             | 1 RBMuxOption                                                                                    |                | RBS-1125 |
| - RLC logical channel mapping indicator    |             | Not present                                                                                      |                | RBS-1126 |
| - Number of uplink RLC logical channels    |             | 1                                                                                                |                | RBS-1127 |
| - Uplink transport channel type            |             | E-DCH                                                                                            |                | RBS-1128 |
| - Logical channel identity                 |             | 7                                                                                                |                | RBS-1129 |
| - E-DCH MAC-d flow identity                |             | 2                                                                                                |                | RBS-1130 |
| - CHOICE RLC PDU size                      | MAC-I-FIXED | Fixed size                                                                                       | Rel-8          | RBS-1131 |
| - DDI                                      |             | 5                                                                                                |                | RBS-1132 |
| - RLC PDU size list                        |             | 1 RLC PDU size                                                                                   |                | RBS-1133 |
| - RLC PDU size                             |             | 336 bits                                                                                         |                | RBS-1134 |
| - CHOICE RLC PDU size                      | MAC-I-FLEX  | Flexible size                                                                                    | Rel-8          | RBS-1135 |
| - Length indicator size                    |             | 15 bit                                                                                           |                | RBS-1136 |
| - Minimum UL RLC PDU size                  |             | See clause 6.10                                                                                  |                | RBS-1137 |
| - Largest UL RLC PDU size                  |             | See clause 6.10                                                                                  |                | RBS-1138 |
| - Include in scheduling info               |             | TRUE                                                                                             |                | RBS-1139 |
| - MAC logical channel priority             |             | 8                                                                                                |                | RBS-1140 |
| - Downlink RLC logical channel info        |             |                                                                                                  |                | RBS-1141 |
| - Number of downlink RLC logical channels  |             | 1                                                                                                |                | RBS-1142 |
| - Downlink transport channel type          |             | HS-DSCH                                                                                          |                | RBS-1143 |
| - DL DCH Transport channel identity        |             | Not present                                                                                      |                | RBS-1144 |
| - DL DSCH Transport channel identity       |             | Not present                                                                                      |                | RBS-1145 |
| - CHOICE DL MAC header type                |             | MAC-ehs                                                                                          |                | RBS-1146 |
| - DL HS-DSCH MAC-ehs                       |             | 0                                                                                                |                | RBS-1147 |
| Queue Id                                   |             |                                                                                                  |                |          |
| - Logical channel identity                 |             | 7                                                                                                |                | RBS-1148 |
| - RAB information for setup                | A23         |                                                                                                  | Rel-7<br>Rel-8 | RBS-1149 |
| - RAB info                                 |             | (high-speed UM DTCH for CS domain)                                                               |                | RBS-1150 |
| - RAB identity                             |             | 0000 0101B                                                                                       |                | RBS-1151 |
|                                            |             | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |                |          |
| - CN domain identity                       |             | CS domain                                                                                        |                | RBS-1152 |
| - NAS Synchronization Indicator            |             | '1010' if WB-AMR is tested, otherwise '0110'                                                     |                | RBS-1153 |
| - Re-establishment timer                   |             | useT314                                                                                          |                | RBS-1154 |
| - CS-HSPA information                      |             |                                                                                                  |                | RBS-1155 |



| Information Element                    | Condition | Value/remark                        | Version | Index    |
|----------------------------------------|-----------|-------------------------------------|---------|----------|
| - Support for lossless SRNS relocation |           | FALSE                               |         | RBS-1209 |
| - Max PDCP SN window size              |           | Not present                         |         | RBS-1210 |
| - PDCP PDU header                      |           | Absent                              |         | RBS-1211 |
| - Header compression                   |           | Not present                         |         | RBS-1212 |
| information                            |           |                                     |         |          |
| - CHOICE RLC info type                 |           | RLC info                            |         | RBS-1213 |
| - CHOICE Uplink RLC mode               |           | AM RLC                              |         | RBS-1214 |
| - Transmission RLC discard             |           |                                     |         | RBS-1215 |
| - CHOICE SDU discard mode              |           | No Discard                          |         | RBS-1216 |
| - MAX_DAT                              |           | 15                                  |         | RBS-1217 |
| - Transmission window size             |           | 128                                 |         | RBS-1218 |
| - Timer_RST                            |           | 500                                 |         | RBS-1219 |
| - Max_RST                              |           | 4                                   |         | RBS-1220 |
| - Polling info                         |           |                                     |         | RBS-1221 |
| - Timer_poll_prohibit                  |           | 100                                 |         | RBS-1222 |
| - Timer_poll                           |           | 100                                 |         | RBS-1223 |
| - Poll_PDU                             |           | Not Present                         |         | RBS-1224 |
| - Poll_SDU                             |           | 1                                   |         | RBS-1225 |
| - Last transmission PDU poll           |           | TRUE                                |         | RBS-1226 |
| - Last retransmission PDU poll         |           | TRUE                                |         | RBS-1227 |
| - Poll_Windows                         |           | 99                                  |         | RBS-1228 |
| - Timer_poll_periodic                  |           | Not Present                         |         | RBS-1229 |
| - CHOICE Downlink RLC mode             |           | AM RLC                              |         | RBS-1230 |
| - CHOICE Downlink RLC PDU              |           | Reference to clause 6 Parameter Set |         | RBS-1231 |
| Size                                   |           |                                     |         |          |
| - In-sequence delivery                 |           | TRUE                                |         | RBS-1232 |
| - Receiving window size                |           | 768                                 |         | RBS-1233 |
| - Downlink RLC status info             |           |                                     |         | RBS-1234 |
| - Timer_status_prohibit                |           | 100                                 |         | RBS-1235 |
| - Timer_EPC                            |           | Not Present                         |         | RBS-1236 |
| - Missing PDU indicator                |           | TRUE                                |         | RBS-1237 |
| - Timer_STATUS_periodic                |           | Not Present                         |         | RBS-1238 |
| - One sided RLC re-                    |           | FALSE                               |         | RBS-1239 |
| establishment                          |           |                                     |         |          |
| - Alternative E-bit interpretation     |           | Not present                         |         | RBS-1240 |
| - Use special value of HE field        |           | TRUE                                |         | RBS-1241 |
| - RB mapping info                      |           |                                     |         | RBS-1242 |
| - Information for each multiplexing    |           | 1 RBMuxOption                       |         | RBS-1243 |
| option                                 |           |                                     |         |          |
| - RLC logical channel mapping          |           | Not present                         |         | RBS-1244 |
| indicator                              |           |                                     |         |          |
| - Number of uplink RLC logical         |           | 1                                   |         | RBS-1245 |
| channels                               |           |                                     |         |          |
| - Uplink transport channel type        |           | RACH                                |         | RBS-1246 |
| - UL Transport channel identity        |           | Not Present                         |         | RBS-1247 |
| - Logical channel identity             |           | 7                                   |         | RBS-1248 |
| - CHOICE RLC size list                 |           | Explicit list                       |         | RBS-1249 |
| - RLC size index                       |           | Reference to clause 6 Parameter Set |         | RBS-1250 |
| - MAC logical channel priority         |           | 8                                   |         | RBS-1251 |
| - Downlink RLC logical channel         |           |                                     |         | RBS-1252 |
| info                                   |           |                                     |         |          |
| - Number of downlink RLC               |           | 1                                   |         | RBS-1253 |
| logical channels                       |           |                                     |         |          |
| - Downlink transport channel           |           | HS-DSCH                             |         | RBS-1254 |
| type                                   |           |                                     |         |          |
| - DL DCH Transport channel             |           | Not present                         |         | RBS-1255 |
| identity                               |           |                                     |         |          |
| - DL DSCH Transport channel            |           | Not present                         |         | RBS-1256 |
| identity                               |           |                                     |         |          |
| - CHOICE DL MAC header type            |           | MAC-ehs                             |         | RBS-1257 |
| - DL HS-DSCH MAC-ehs                   |           | 2                                   |         | RBS-1258 |
| Queue Id                               |           |                                     |         |          |
| - Logical channel identity             |           | Not Present                         |         | RBS-1259 |
| - RAB information for setup            | A26       |                                     | Rel-8   | RBS-1260 |
| - RAB info                             |           | (first UM DTCH for PS domain)       |         | RBS-1261 |
| - RAB identity                         |           | 0000 0101B                          |         | RBS-1262 |



| Information Element                        | Condition | Value/remark                                                                                     | Version | Index    |
|--------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|----------|
| - Support for lossless SRNS relocation     |           | FALSE                                                                                            |         | RBS-1311 |
| - Max PDCP SN window size                  |           | Not present                                                                                      |         | RBS-1312 |
| - PDCP PDU header                          |           | Absent                                                                                           |         | RBS-1313 |
| - Header compression                       |           | Not present                                                                                      |         | RBS-1314 |
| information                                |           |                                                                                                  |         |          |
| - CHOICE RLC info type                     |           | RLC info                                                                                         |         | RBS-1315 |
| - CHOICE Uplink RLC mode                   |           | UM RLC                                                                                           |         | RBS-1316 |
| - Transmission RLC discard                 |           | Not present                                                                                      |         | RBS-1317 |
| - CHOICE Downlink RLC mode                 |           | UM RLC                                                                                           |         | RBS-1318 |
| - DL UM RLC LI size                        |           | 7                                                                                                |         | RBS-1319 |
| - DL Reception Window Size                 |           | Not present                                                                                      |         | RBS-1320 |
| - Alternative E-bit interpretation         |           | TRUE                                                                                             |         | RBS-1321 |
| - One sided RLC re-establishment           |           | FALSE                                                                                            |         | RBS-1322 |
| - RB mapping info                          |           |                                                                                                  |         | RBS-1323 |
| - Information for each multiplexing option |           | 1 RBMuxOption                                                                                    |         | RBS-1324 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                                      |         | RBS-1325 |
| - Number of uplink RLC logical channels    |           | 1                                                                                                |         | RBS-1326 |
| - Uplink transport channel type            |           | E-DCH                                                                                            |         | RBS-1327 |
| - Logical channel identity                 |           | 8                                                                                                |         | RBS-1328 |
| - E-DCH MAC-d flow identity                |           | 3                                                                                                |         | RBS-1329 |
| - CHOICE RLC PDU size                      |           | Flexible size                                                                                    |         | RBS-1330 |
| - Length indicator size                    |           | Not present                                                                                      |         | RBS-1331 |
| - Minimum UL RLC PDU size                  |           | See clause 6.10                                                                                  |         | RBS-1332 |
| - Largest UL RLC PDU size                  |           | See clause 6.10                                                                                  |         | RBS-1333 |
| - Include in scheduling info               |           | TRUE                                                                                             |         | RBS-1334 |
| - MAC logical channel priority             |           | 8                                                                                                |         | RBS-1335 |
| - Downlink RLC logical channel info        |           |                                                                                                  |         | RBS-1336 |
| - Number of downlink RLC logical channels  |           | 1                                                                                                |         | RBS-1337 |
| - Downlink transport channel type          |           | HS-DSCH                                                                                          |         | RBS-1338 |
| - DL DCH Transport channel identity        |           | Not present                                                                                      |         | RBS-1339 |
| - DL DSCH Transport channel identity       |           | Not present                                                                                      |         | RBS-1340 |
| - CHOICE <i>DL MAC header type</i>         |           | MAC-ehs                                                                                          |         | RBS-1341 |
| - DL HS-DSCH MAC-ehs                       |           | 3                                                                                                |         | RBS-1342 |
| Queue Id                                   |           |                                                                                                  |         |          |
| - Logical channel identity                 |           | 8                                                                                                |         | RBS-1343 |
| - RAB information for setup                | A26       |                                                                                                  | Rel-8   | RBS-1344 |
| - RAB info                                 |           | (third high-speed UM DTCH for PS domain)                                                         |         | RBS-1345 |
| - RAB identity                             |           | 0000 0111B                                                                                       |         | RBS-1346 |
|                                            |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |          |
| - CN domain identity                       |           | PS domain                                                                                        |         | RBS-1347 |
| - NAS Synchronization Indicator            |           | Not Present                                                                                      |         | RBS-1348 |
| - Re-establishment timer                   |           | useT315                                                                                          |         | RBS-1349 |
| - RB information to setup                  |           |                                                                                                  |         | RBS-1350 |
| - RB identity                              |           | 21                                                                                               |         | RBS-1351 |
| - PDCP info                                |           |                                                                                                  |         | RBS-1352 |
| - Support for lossless SRNS relocation     |           | FALSE                                                                                            |         | RBS-1353 |
| - Max PDCP SN window size                  |           | Not present                                                                                      |         | RBS-1354 |
| - PDCP PDU header                          |           | Absent                                                                                           |         | RBS-1355 |
| - Header compression                       |           | Not present                                                                                      |         | RBS-1356 |
| information                                |           |                                                                                                  |         |          |
| - CHOICE RLC info type                     |           | RLC info                                                                                         |         | RBS-1357 |
| - CHOICE Uplink RLC mode                   |           | UM RLC                                                                                           |         | RBS-1358 |
| - Transmission RLC discard                 |           | Not present                                                                                      |         | RBS-1359 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Condition | Value/remark                                                                                     | Version | Index    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- CHOICE Downlink RLC mode</li> <li>- DL UM RLC LI size</li> <li>- DL Reception Window Size</li> <li>- Alternative E-bit interpretation</li> <li>- One sided RLC re-establishment</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size</li> <li>- Length indicator size</li> <li>- Minimum UL RLC PDU size</li> <li>- Largest UL RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of downlink RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i></li> <li>- DL HS-DSCH MAC-ehs</li> </ul> |           | UM RLC                                                                                           |         | RBS-1360 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 7                                                                                                |         | RBS-1361 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not present                                                                                      |         | RBS-1362 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | TRUE                                                                                             |         | RBS-1363 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | FALSE                                                                                            |         | RBS-1364 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                  |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 1 RBMuxOption                                                                                    |         | RBS-1365 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                  |         | RBS-1366 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not Present                                                                                      |         | RBS-1367 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 1                                                                                                |         | RBS-1368 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | E-DCH                                                                                            |         | RBS-1369 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 9                                                                                                |         | RBS-1370 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 4                                                                                                |         | RBS-1371 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Flexible size                                                                                    |         | RBS-1372 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not present                                                                                      |         | RBS-1373 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | See clause 6.10                                                                                  |         | RBS-1374 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | See clause 6.10                                                                                  |         | RBS-1375 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | TRUE                                                                                             |         | RBS-1376 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 8                                                                                                |         | RBS-1377 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                  |         | RBS-1378 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 1                                                                                                |         | RBS-1379 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | HS-DSCH                                                                                          |         | RBS-1380 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not present                                                                                      |         | RBS-1381 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not present                                                                                      |         | RBS-1382 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | MAC-ehs                                                                                          |         | RBS-1383 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 4                                                                                                |         | RBS-1384 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                  |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 9                                                                                                |         | RBS-1385 |
| <ul style="list-style-type: none"> <li>- RAB information for setup</li> <li>- RAB info</li> <li>- RAB identity</li> <li>- CN domain identity</li> <li>- NAS Synchronization Indicator</li> <li>- Re-establishment timer</li> <li>- RB information to setup</li> <li>- RB identity</li> <li>- PDCP info</li> <li>- Support for lossless SRNS relocation</li> <li>- Max PDCP SN window size</li> <li>- PDCP PDU header</li> <li>- Header compression</li> <li>- CHOICE RLC info type</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- CHOICE Downlink RLC mode</li> <li>- DL UM RLC LI size</li> <li>- DL Reception Window Size</li> <li>- One sided RLC re-establishment</li> <li>- Alternative E-bit interpretation</li> <li>- Use special value of HE field</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> </ul>                                                                                                                                                                                     | A27, A27a | (high-speed UM DTCH for PS domain)                                                               | Rel-8   | RBS-1386 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 0000 0101B                                                                                       |         | RBS-1387 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS-1388 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | PS domain                                                                                        |         | RBS-1389 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not Present                                                                                      |         | RBS-1390 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | useT315                                                                                          |         | RBS-1391 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                  |         | RBS-1392 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 25                                                                                               |         | RBS-1393 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | FALSE                                                                                            |         | RBS-1394 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                  |         | RBS-1395 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not present                                                                                      |         | RBS-1396 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Absent                                                                                           |         | RBS-1397 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not present                                                                                      |         | RBS-1398 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | RLC info                                                                                         |         | RBS-1399 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | UM RLC                                                                                           |         | RBS-1400 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not Present                                                                                      |         | RBS-1401 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | UM RLC                                                                                           |         | RBS-1402 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 15                                                                                               |         | RBS-1403 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not present                                                                                      |         | RBS-1404 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | FALSE                                                                                            |         | RBS-1405 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | TRUE                                                                                             |         | RBS-1406 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not present                                                                                      |         | RBS-1407 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                  |         | RBS-1408 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 1 RBMuxOption                                                                                    |         | RBS-1409 |

| Information Element                                                                              | Condition | Value/remark                        | Version | Index    |
|--------------------------------------------------------------------------------------------------|-----------|-------------------------------------|---------|----------|
| - RLC logical channel mapping indicator                                                          |           | Not present                         |         | RBS-1410 |
| - Number of uplink RLC logical channels                                                          |           | 1                                   |         | RBS-1411 |
| - Uplink transport channel type                                                                  |           | E-DCH                               |         | RBS-1412 |
| - Logical channel identity                                                                       |           | 7                                   |         | RBS-1413 |
| - E-DCH MAC-d flow identity                                                                      |           | 2                                   |         | RBS-1414 |
| - CHOICE RLC PDU size                                                                            |           | Flexible size                       |         | RBS-1415 |
| - Length indicator size                                                                          |           | Not present                         |         | RBS-1416 |
| - Minimum UL RLC PDU size                                                                        |           | See clause 6.10                     |         | RBS-1417 |
| - Largest UL RLC PDU size                                                                        |           | See clause 6.10                     |         | RBS-1418 |
| - Include in scheduling info                                                                     |           | TRUE                                |         | RBS-1419 |
| - MAC logical channel priority                                                                   |           | 8                                   |         | RBS-1420 |
| - Downlink RLC logical channel info                                                              |           |                                     |         | RBS-1421 |
| - Number of downlink RLC logical channels                                                        |           | 1                                   |         | RBS-1422 |
| - Downlink transport channel type                                                                |           | HS-DSCH                             |         | RBS-1423 |
| - DL DCH Transport channel identity                                                              |           | Not present                         |         | RBS-1424 |
| - DL DSCH Transport channel identity                                                             |           | Not present                         |         | RBS-1425 |
| - CHOICE <i>DL MAC header type</i>                                                               |           | MAC-ehs                             |         | RBS-1426 |
| - DL HS-DSCH MAC-ehs                                                                             |           | 0                                   |         | RBS-1427 |
| Queue Id                                                                                         |           |                                     |         |          |
| - Logical channel identity                                                                       |           | 7                                   |         | RBS-1428 |
| - RAB information for setup                                                                      | A29       |                                     | Rel-8   | RBS-1429 |
| - RAB info                                                                                       |           | (high-speed AM DTCH for PS domain)  |         | RBS-1430 |
| - RAB identity                                                                                   |           | 0000 0101B                          |         | RBS-1431 |
| The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |           |                                     |         | RBS-1432 |
| - CN domain identity                                                                             |           | PS domain                           |         | RBS-1433 |
| - NAS Synchronization Indicator                                                                  |           | Not Present                         |         | RBS-1434 |
| - Re-establishment timer                                                                         |           | useT315                             |         | RBS-1435 |
| - RB information to setup                                                                        |           |                                     |         | RBS-1436 |
| - RB identity                                                                                    |           | 25                                  |         | RBS-1437 |
| - PDCP info                                                                                      |           |                                     |         | RBS-1438 |
| - Support for lossless SRNS relocation                                                           |           | FALSE                               |         | RBS-1439 |
| - Max PDCP SN window size                                                                        |           | Not present                         |         | RBS-1440 |
| - PDCP PDU header                                                                                |           | Absent                              |         | RBS-1441 |
| - Header compression                                                                             |           | Not present                         |         | RBS-1442 |
| information                                                                                      |           |                                     |         |          |
| - CHOICE RLC info type                                                                           |           | RLC info                            |         | RBS-1443 |
| - CHOICE Uplink RLC mode                                                                         |           | AM RLC                              |         | RBS-1444 |
| - Transmission RLC discard                                                                       |           |                                     |         | RBS-1445 |
| - CHOICE SDU discard mode                                                                        |           | No Discard                          |         | RBS-1446 |
| - MAX_DAT                                                                                        |           | 15                                  |         | RBS-1447 |
| - Transmission window size                                                                       |           | 128                                 |         | RBS-1448 |
| - Timer_RST                                                                                      |           | 500                                 |         | RBS-1449 |
| - Max_RST                                                                                        |           | 4                                   |         | RBS-1450 |
| - Polling info                                                                                   |           |                                     |         | RBS-1451 |
| - Timer_poll_prohibit                                                                            |           | 100                                 |         | RBS-1452 |
| - Timer_poll                                                                                     |           | 100                                 |         | RBS-1453 |
| - Poll_PDU                                                                                       |           | Not Present                         |         | RBS-1454 |
| - Poll_SDU                                                                                       |           | 1                                   |         | RBS-1455 |
| - Last transmission PDU poll                                                                     |           | TRUE                                |         | RBS-1456 |
| - Last retransmission PDU poll                                                                   |           | TRUE                                |         | RBS-1457 |
| - Poll_Windows                                                                                   |           | 99                                  |         | RBS-1458 |
| - Timer_poll_periodic                                                                            |           | Not Present                         |         | RBS-1459 |
| - CHOICE Downlink RLC mode                                                                       |           | AM RLC                              |         | RBS-1460 |
| - CHOICE Downlink RLC PDU                                                                        |           | Reference to clause 6 Parameter Set |         | RBS-1461 |
| Size                                                                                             |           |                                     |         |          |
| - In-sequence delivery                                                                           |           | TRUE                                |         | RBS-1462 |
| - Receiving window size                                                                          |           | 768                                 |         | RBS-1463 |

| Information Element                                                                              | Condition | Value/remark                       | Version | Index    |
|--------------------------------------------------------------------------------------------------|-----------|------------------------------------|---------|----------|
| - Downlink RLC status info                                                                       |           | 100                                |         | RBS-1464 |
| - Timer_status_prohibit                                                                          |           | Not Present                        |         | RBS-1465 |
| - Timer_EPC                                                                                      |           | TRUE                               |         | RBS-1466 |
| - Missing PDU indicator                                                                          |           | Not Present                        |         | RBS-1467 |
| - Timer_STATUS_periodic                                                                          |           | FALSE                              |         | RBS-1468 |
| - One sided RLC re-establishment                                                                 |           | Not present                        |         | RBS-1469 |
| - Alternative E-bit interpretation                                                               |           | TRUE                               |         | RBS-1470 |
| - Use special value of HE field                                                                  |           | 1 RBMuxOption                      |         | RBS-1471 |
| - RB mapping info                                                                                |           | Not present                        |         | RBS-1472 |
| - Information for each multiplexing option                                                       |           | 1                                  |         | RBS-1473 |
| - RLC logical channel mapping indicator                                                          |           | Not present                        |         | RBS-1474 |
| - Number of uplink RLC logical channels                                                          |           | 1                                  |         | RBS-1475 |
| - Uplink transport channel type                                                                  |           | E-DCH                              |         | RBS-1476 |
| - Logical channel identity                                                                       |           | 7                                  |         | RBS-1477 |
| - E-DCH MAC-d flow identity                                                                      |           | 0                                  |         | RBS-1478 |
| - CHOICE RLC PDU size                                                                            |           | Flexible size                      |         | RBS-1479 |
| - Length indicator size                                                                          |           | 15 bit                             |         | RBS-1480 |
| - Minimum UL RLC PDU size                                                                        |           | See clause 6.10                    |         | RBS-1481 |
| - Largest UL RLC PDU size                                                                        |           | See clause 6.10                    |         | RBS-1482 |
| - Include in scheduling info                                                                     |           | TRUE                               |         | RBS-1483 |
| - MAC logical channel priority                                                                   |           | 8                                  |         | RBS-1484 |
| - Downlink RLC logical channel info                                                              |           | 1                                  |         | RBS-1485 |
| - Number of downlink RLC logical channels                                                        |           | HS-DSCH                            |         | RBS-1486 |
| - Downlink transport channel type                                                                |           | Not present                        |         | RBS-1487 |
| - DL DCH Transport channel identity                                                              |           | Not present                        |         | RBS-1488 |
| - DL DSCH Transport channel identity                                                             |           | Not present                        |         | RBS-1489 |
| - CHOICE DL MAC header type                                                                      |           | MAC-ehs                            |         | RBS-1490 |
| - DL HS-DSCH MAC-ehs                                                                             |           | 2                                  |         | RBS-1491 |
| Queue Id                                                                                         |           | 7                                  |         | RBS-1492 |
| - Logical channel identity                                                                       |           |                                    |         |          |
| - RAB information for setup                                                                      | A30       | (high-speed AM DTCH for PS domain) | Rel-8   | RBS-1493 |
| - RAB info                                                                                       |           | 0000 0101B                         |         | RBS-1494 |
| - RAB identity                                                                                   |           |                                    |         | RBS-1495 |
| The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |           |                                    |         | RBS-1496 |
| - CN domain identity                                                                             |           | PS domain                          |         | RBS-1497 |
| - NAS Synchronization Indicator                                                                  |           | Not Present                        |         | RBS-1498 |
| - Re-establishment timer                                                                         |           | useT315                            |         | RBS-1499 |
| - RB information to setup                                                                        |           |                                    |         | RBS-1500 |
| - RB identity                                                                                    |           | 25                                 |         | RBS-1501 |
| - PDCP info                                                                                      |           |                                    |         | RBS-1502 |
| - Support for lossless SRNS relocation                                                           |           | FALSE                              |         | RBS-1503 |
| - Max PDCP SN window size                                                                        |           | Not present                        |         | RBS-1504 |
| - PDCP PDU header                                                                                |           | Absent                             |         | RBS-1505 |
| - Header compression information                                                                 |           | Not present                        |         | RBS-1506 |
| - CHOICE RLC info type                                                                           |           | RLC info                           |         | RBS-1507 |
| - CHOICE Uplink RLC mode                                                                         |           | AM RLC                             |         | RBS-1508 |
| - Transmission RLC discard                                                                       |           |                                    |         | RBS-1509 |
| - CHOICE SDU discard mode                                                                        |           | No Discard                         |         | RBS-1510 |
| - MAX_DAT                                                                                        |           | 15                                 |         | RBS-1511 |
| - Transmission window size                                                                       |           | 128                                |         | RBS-1512 |
| - Timer_RST                                                                                      |           | 500                                |         | RBS-1513 |
| - Max_RST                                                                                        |           | 4                                  |         | RBS-1514 |
| - Polling info                                                                                   |           |                                    |         | RBS-1515 |
| - Timer_poll_prohibit                                                                            |           | 100                                |         | RBS-1516 |



| Information Element                 | Condition | Value/remark                                                                                     | Version | Index    |
|-------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|----------|
| - Timer_poll                        |           | 100                                                                                              |         | RBS-1517 |
| - Poll_PDU                          |           | Not Present                                                                                      |         | RBS-1518 |
| - Poll_SDU                          |           | 1                                                                                                |         | RBS-1519 |
| - Last transmission PDU poll        |           | TRUE                                                                                             |         | RBS-1520 |
| - Last retransmission PDU poll      |           | TRUE                                                                                             |         | RBS-1521 |
| - Poll_Windows                      |           | 99                                                                                               |         | RBS-1522 |
| - Timer_poll_periodic               |           | Not Present                                                                                      |         | RBS-1523 |
| - CHOICE Downlink RLC mode          |           | AM RLC                                                                                           |         | RBS-1524 |
| - CHOICE Downlink RLC PDU           |           | Reference to clause 6 Parameter Set                                                              |         | RBS-1525 |
| Size                                |           |                                                                                                  |         |          |
| - In-sequence delivery              |           | TRUE                                                                                             |         | RBS-1526 |
| - Receiving window size             |           | 768                                                                                              |         | RBS-1527 |
| - Downlink RLC status info          |           |                                                                                                  |         | RBS-1528 |
| - Timer_status_prohibit             |           | 100                                                                                              |         | RBS-1529 |
| - Timer_EPC                         |           | Not Present                                                                                      |         | RBS-1530 |
| - Missing PDU indicator             |           | TRUE                                                                                             |         | RBS-1531 |
| - Timer_STATUS_periodic             |           | Not Present                                                                                      |         | RBS-1532 |
| - One sided RLC re-                 |           | FALSE                                                                                            |         | RBS-1533 |
| establishment                       |           |                                                                                                  |         |          |
| - Alternative E-bit interpretation  |           | Not present                                                                                      |         | RBS-1534 |
| - Use special value of HE field     |           | TRUE                                                                                             |         | RBS-1535 |
| - RB mapping info                   |           |                                                                                                  |         | RBS-1536 |
| - Information for each multiplexing |           | 1 RBMuxOption                                                                                    |         | RBS-1537 |
| option                              |           |                                                                                                  |         |          |
| - RLC logical channel mapping       |           | Not present                                                                                      |         | RBS-1538 |
| indicator                           |           |                                                                                                  |         |          |
| - Number of uplink RLC logical      |           | 1                                                                                                |         | RBS-1539 |
| channels                            |           |                                                                                                  |         |          |
| - Uplink transport channel type     |           | E-DCH                                                                                            |         | RBS-1540 |
| - Logical channel identity          |           | 7                                                                                                |         | RBS-1541 |
| - E-DCH MAC-d flow identity         |           | 2                                                                                                |         | RBS-1542 |
| - CHOICE RLC PDU size               |           | Flexible size                                                                                    |         | RBS-1543 |
| - Length indicator size             |           | 15 bit                                                                                           |         | RBS-1544 |
| - Minimum UL RLC PDU size           |           | See clause 6.10                                                                                  |         | RBS-1545 |
| - Largest UL RLC PDU size           |           | See clause 6.10                                                                                  |         | RBS-1546 |
| - Include in scheduling info        |           | TRUE                                                                                             |         | RBS-1547 |
| - MAC logical channel priority      |           | 8                                                                                                |         | RBS-1548 |
| - Downlink RLC logical channel      |           |                                                                                                  |         | RBS-1549 |
| info                                |           |                                                                                                  |         |          |
| - Number of downlink RLC            |           | 1                                                                                                |         | RBS-1550 |
| logical channels                    |           |                                                                                                  |         |          |
| - Downlink transport channel        |           | HS-DSCH                                                                                          |         | RBS-1551 |
| type                                |           |                                                                                                  |         |          |
| - DL DCH Transport channel          |           | Not present                                                                                      |         | RBS-1552 |
| identity                            |           |                                                                                                  |         |          |
| - DL DSCH Transport channel         |           | Not present                                                                                      |         | RBS-1553 |
| identity                            |           |                                                                                                  |         |          |
| - CHOICE DL MAC header type         |           | MAC-ehs                                                                                          |         | RBS-1554 |
| - DL HS-DSCH MAC-ehs                |           | 2                                                                                                |         | RBS-1555 |
| Queue Id                            |           |                                                                                                  |         |          |
| - Logical channel identity          |           | 7                                                                                                |         | RBS-1556 |
| - RAB information for setup         | A31, A32  |                                                                                                  | Rel-9   | RBS-1557 |
| - RAB info                          |           | (high-speed AM DTCH for PS domain)                                                               |         | RBS-1558 |
| - RAB identity                      |           | 0000 0101B                                                                                       |         | RBS-1559 |
|                                     |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |          |
| - CN domain identity                |           | PS domain                                                                                        |         | RBS-1560 |
| - NAS Synchronization Indicator     |           | Not Present                                                                                      |         | RBS-1561 |
| - Re-establishment timer            |           | useT315                                                                                          |         | RBS-1562 |
| - RB information to setup           |           |                                                                                                  |         | RBS-1563 |
| - RB identity                       |           | 25                                                                                               |         | RBS-1564 |
| - PDCP info                         |           |                                                                                                  |         | RBS-1565 |
| - Support for lossless SRNS         |           | FALSE                                                                                            |         | RBS-1566 |
| relocation                          |           |                                                                                                  |         |          |
| - Max PDCP SN window size           |           | Not present                                                                                      |         | RBS-1567 |
| - PDCP PDU header                   |           | Absent                                                                                           |         | RBS-1568 |

| Information Element                        | Condition | Value/remark                                                                    | Version | Index    |
|--------------------------------------------|-----------|---------------------------------------------------------------------------------|---------|----------|
| - Header compression information           |           | Not present                                                                     |         | RBS-1569 |
| - CHOICE RLC info type                     |           | RLC info                                                                        |         | RBS-1570 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                                                                          |         | RBS-1571 |
| - Transmission RLC discard                 |           |                                                                                 |         | RBS-1572 |
| - CHOICE SDU discard mode                  |           | No Discard                                                                      |         | RBS-1573 |
| - MAX_DAT                                  |           | 15                                                                              |         | RBS-1574 |
| - Transmission window size                 |           | 2047                                                                            |         | RBS-1575 |
| - Timer_RST                                |           | 500                                                                             |         | RBS-1576 |
| - Max_RST                                  |           | 4                                                                               |         | RBS-1577 |
| - Polling info                             |           |                                                                                 |         | RBS-1578 |
| - Timer_poll_prohibit                      |           | 100                                                                             |         | RBS-1579 |
| - Timer_poll                               |           | 100                                                                             |         | RBS-1580 |
| - Poll_PDU                                 |           | Not Present                                                                     |         | RBS-1581 |
| - Poll_SDU                                 |           | 1                                                                               |         | RBS-1582 |
| - Last transmission PDU poll               |           | TRUE                                                                            |         | RBS-1583 |
| - Last retransmission PDU poll             |           | TRUE                                                                            |         | RBS-1584 |
| - Poll_Windows                             |           | 50                                                                              |         | RBS-1585 |
| - Timer_poll_periodic                      |           | Not Present                                                                     |         | RBS-1586 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                                                                          |         | RBS-1587 |
| - CHOICE Downlink RLC PDU Size             |           | Reference to clause 6 Parameter Set                                             |         | RBS-1588 |
| - Length indicator size                    |           | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" |         | RBS-1589 |
| - In-sequence delivery                     |           | TRUE                                                                            |         | RBS-1590 |
| - Receiving window size                    |           | 2047                                                                            |         | RBS-1591 |
| - Downlink RLC status info                 |           |                                                                                 |         | RBS-1592 |
| - Timer_status_prohibit                    |           | 80                                                                              |         | RBS-1593 |
| - Timer_EPC                                |           | Not Present                                                                     |         | RBS-1594 |
| - Missing PDU indicator                    |           | TRUE                                                                            |         | RBS-1595 |
| - Timer_STATUS_periodic                    |           | Not Present                                                                     |         | RBS-1596 |
| - One sided RLC re-establishment           |           | FALSE                                                                           |         | RBS-1597 |
| - Alternative E-bit interpretation         |           | Not present                                                                     |         | RBS-1598 |
| - Use special value of HE field            |           | TRUE                                                                            |         | RBS-1599 |
| - RB mapping info                          |           |                                                                                 |         | RBS-1600 |
| - Information for each multiplexing option |           | 1 RBMuxOption                                                                   |         | RBS-1601 |
| - RLC logical channel mapping indicator    |           | Not present                                                                     |         | RBS-1602 |
| - Number of uplink RLC logical channels    |           | 1                                                                               |         | RBS-1603 |
| - Uplink transport channel type            |           | E-DCH                                                                           |         | RBS-1604 |
| - Logical channel identity                 |           | 7                                                                               |         | RBS-1605 |
| - E-DCH MAC-d flow identity                |           | 2                                                                               |         | RBS-1606 |
| - CHOICE RLC PDU size                      |           | Fixed size                                                                      |         | RBS-1607 |
| - DDI                                      |           | 7                                                                               |         | RBS-1608 |
| - RLC PDU size list                        |           | See clause 6.10                                                                 |         | RBS-1609 |
| - Include in scheduling info               |           | TRUE                                                                            |         | RBS-1611 |
| - MAC logical channel priority             |           | 8                                                                               |         | RBS-1612 |
| - Downlink RLC logical channel info        |           |                                                                                 |         | RBS-1613 |
| - Number of downlink RLC logical channels  |           | 1                                                                               |         | RBS-1614 |
| - Downlink transport channel type          |           | HS-DSCH                                                                         |         | RBS-1615 |
| - DL DCH Transport channel identity        |           | Not present                                                                     |         | RBS-1616 |
| - DL DSCH Transport channel identity       |           | Not present                                                                     |         | RBS-1617 |
| - CHOICE DL MAC header type                |           | MAC-ehs                                                                         |         | RBS-1618 |
| - DL HS-DSCH MAC-ehs                       |           | 0                                                                               |         | RBS-1619 |
| Queue Id                                   |           |                                                                                 |         |          |
| - Logical channel identity                 |           | 7                                                                               |         | RBS-1620 |
| - RAB information for setup                | A31, A32  |                                                                                 | Rel-9   | RBS-1621 |
| - RAB info                                 |           | (high-speed AM DTCH for PS domain)                                              |         | RBS-1622 |

| Information Element                        | Condition | Value/remark                                                                                                   | Version | Index    |
|--------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------|---------|----------|
| - RAB identity                             |           | 0000 0101B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS-1623 |
| - CN domain identity                       |           | PS domain                                                                                                      |         | RBS-1624 |
| - NAS Synchronization Indicator            |           | Not Present                                                                                                    |         | RBS-1625 |
| - Re-establishment timer                   |           | useT315                                                                                                        |         | RBS-1626 |
| - RB information to setup                  |           |                                                                                                                |         | RBS-1627 |
| - RB identity                              |           | 25                                                                                                             |         | RBS-1628 |
| - PDCP info                                |           |                                                                                                                |         | RBS-1629 |
| - Support for lossless SRNS relocation     |           | FALSE                                                                                                          |         | RBS-1630 |
| - Max PDCP SN window size                  |           | Not present                                                                                                    |         | RBS-1631 |
| - PDCP PDU header                          |           | Absent                                                                                                         |         | RBS-1632 |
| - Header compression information           |           | Not present                                                                                                    |         | RBS-1633 |
| - CHOICE RLC info type                     |           | RLC info                                                                                                       |         | RBS-1634 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                                                                                                         |         | RBS-1635 |
| - Transmission RLC discard                 |           |                                                                                                                |         | RBS-1636 |
| - CHOICE SDU discard mode                  |           | No Discard                                                                                                     |         | RBS-1637 |
| - MAX_DAT                                  |           | 15                                                                                                             |         | RBS-1638 |
| - Transmission window size                 |           | 2047                                                                                                           |         | RBS-1639 |
| - Timer_RST                                |           | 500                                                                                                            |         | RBS-1640 |
| - Max_RST                                  |           | 4                                                                                                              |         | RBS-1641 |
| - Polling info                             |           |                                                                                                                |         | RBS-1642 |
| - Timer_poll_prohibit                      |           | 100                                                                                                            |         | RBS-1643 |
| - Timer_poll                               |           | 100                                                                                                            |         | RBS-1644 |
| - Poll_PDU                                 |           | Not Present                                                                                                    |         | RBS-1645 |
| - Poll_SDU                                 |           | 1                                                                                                              |         | RBS-1646 |
| - Last transmission PDU poll               |           | TRUE                                                                                                           |         | RBS-1647 |
| - Last retransmission PDU poll             |           | TRUE                                                                                                           |         | RBS-1648 |
| - Poll_Windows                             |           | 50                                                                                                             |         | RBS-1649 |
| - Timer_poll_periodic                      |           | Not Present                                                                                                    |         | RBS-1650 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                                                                                                         |         | RBS-1651 |
| - CHOICE Downlink RLC PDU Size             |           | Reference to clause 6 Parameter Set                                                                            |         | RBS-1652 |
| - Length indicator size                    |           | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible"                                |         | RBS-1653 |
| - In-sequence delivery                     |           | TRUE                                                                                                           |         | RBS-1654 |
| - Receiving window size                    |           | 2047                                                                                                           |         | RBS-1655 |
| - Downlink RLC status info                 |           |                                                                                                                |         | RBS-1656 |
| - Timer_status_prohibit                    |           | 80                                                                                                             |         | RBS-1657 |
| - Timer_EPC                                |           | Not Present                                                                                                    |         | RBS-1658 |
| - Missing PDU indicator                    |           | TRUE                                                                                                           |         | RBS-1659 |
| - Timer_STATUS_periodic                    |           | Not Present                                                                                                    |         | RBS-1660 |
| - One sided RLC re-establishment           |           | FALSE                                                                                                          |         | RBS-1661 |
| - Alternative E-bit interpretation         |           | Not present                                                                                                    |         | RBS-1662 |
| - Use special value of HE field            |           | TRUE                                                                                                           |         | RBS-1663 |
| - RB mapping info                          |           |                                                                                                                |         | RBS-1664 |
| - Information for each multiplexing option |           | 1 RBMuxOption                                                                                                  |         | RBS-1665 |
| - RLC logical channel mapping indicator    |           | Not present                                                                                                    |         | RBS-1666 |
| - Number of uplink RLC logical channels    |           | 1                                                                                                              |         | RBS-1667 |
| - Uplink transport channel type            |           | E-DCH                                                                                                          |         | RBS-1668 |
| - Logical channel identity                 |           | 7                                                                                                              |         | RBS-1669 |
| - E-DCH MAC-d flow identity                |           | 2                                                                                                              |         | RBS-1670 |
| - CHOICE RLC PDU size                      |           | Fixed size                                                                                                     |         | RBS-1671 |
| - DDI                                      |           | 7                                                                                                              |         | RBS-1672 |
| - RLC PDU size list                        |           | See clause 6.10                                                                                                |         | RBS-1673 |
| - Include in scheduling info               |           | TRUE                                                                                                           |         | RBS-1674 |
| - MAC logical channel priority             |           | 8                                                                                                              |         | RBS-1675 |
| - Downlink RLC logical channel info        |           |                                                                                                                |         | RBS-1676 |
| - Number of downlink RLC logical channels  |           | 1                                                                                                              |         | RBS-1677 |

| Information Element                    | Condition                    | Value/remark                                                                                     | Version | Index    |
|----------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------|---------|----------|
| - Downlink transport channel type      |                              | HS-DSCH                                                                                          |         | RBS-1678 |
| - DL DCH Transport channel identity    |                              | Not present                                                                                      |         | RBS-1679 |
| - DL DSCH Transport channel identity   |                              | Not present                                                                                      |         | RBS-1680 |
| - CHOICE <i>DL MAC header type</i>     |                              | MAC-ehs                                                                                          |         | RBS-1681 |
| - DL HS-DSCH MAC-ehs                   |                              | 0                                                                                                |         | RBS-1682 |
| Queue Id                               |                              |                                                                                                  |         |          |
| - Logical channel identity             |                              | 7                                                                                                |         | RBS-1683 |
| - RAB information for setup            | A33, A34, A35, A36, A37      |                                                                                                  | Rel-10  | RBS-1684 |
|                                        | A38, A39, A40, A41, A42, A43 |                                                                                                  | Rel-11  |          |
| - RAB info                             |                              | (high-speed AM DTCH for PS domain)                                                               |         | RBS-1685 |
| - RAB identity                         |                              | 0000 0101B                                                                                       |         | RBS-1686 |
|                                        |                              | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |          |
| - CN domain identity                   |                              | PS domain                                                                                        |         | RBS-1687 |
| - NAS Synchronization Indicator        |                              | Not Present                                                                                      |         | RBS-1688 |
| - Re-establishment timer               |                              | useT315                                                                                          |         | RBS-1689 |
| - RB information to setup              |                              |                                                                                                  |         | RBS-1690 |
| - RB identity                          |                              | 25                                                                                               |         | RBS-1691 |
| - PDCP info                            |                              |                                                                                                  |         | RBS-1692 |
| - Support for lossless SRNS relocation |                              | FALSE                                                                                            |         | RBS-1693 |
| - Max PDCP SN window size              |                              | Not present                                                                                      |         | RBS-1694 |
| - PDCP PDU header                      |                              | Absent                                                                                           |         | RBS-1695 |
| - Header compression                   |                              | Not present                                                                                      |         | RBS-1696 |
| information                            |                              |                                                                                                  |         |          |
| - CHOICE RLC info type                 |                              | RLC info                                                                                         |         | RBS-1697 |
| - CHOICE Uplink RLC mode               |                              | AM RLC                                                                                           |         | RBS-1698 |
| - Transmission RLC discard             |                              |                                                                                                  |         | RBS-1699 |
| - CHOICE SDU discard mode              |                              | No Discard                                                                                       |         | RBS-1700 |
| - MAX_DAT                              |                              | 15                                                                                               |         | RBS-1701 |
| - Transmission window size             |                              | 2047                                                                                             |         | RBS-1702 |
| - Timer_RST                            |                              | 500                                                                                              |         | RBS-1703 |
| - Max_RST                              |                              | 4                                                                                                |         | RBS-1704 |
| - Polling info                         |                              |                                                                                                  |         | RBS-1705 |
| - Timer_poll_prohibit                  |                              | 100                                                                                              |         | RBS-1706 |
| - Timer_poll                           |                              | 100                                                                                              |         | RBS-1707 |
| - Poll_PDU                             |                              | Not Present                                                                                      |         | RBS-1708 |
| - Poll_SDU                             |                              | 1                                                                                                |         | RBS-1709 |
| - Last transmission PDU poll           |                              | TRUE                                                                                             |         | RBS-1710 |
| - Last retransmission PDU poll         |                              | TRUE                                                                                             |         | RBS-1711 |
| - Poll_Windows                         |                              | 50                                                                                               |         | RBS-1712 |
| - Timer_poll_periodic                  |                              | Not Present                                                                                      |         | RBS-1713 |
| - CHOICE Downlink RLC mode             |                              | AM RLC                                                                                           |         | RBS-1714 |
| - CHOICE Downlink RLC PDU              |                              | Reference to clause 6 Parameter Set                                                              |         | RBS-1715 |
| Size                                   |                              |                                                                                                  |         |          |
| - Length indicator size                |                              | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible"                  |         | RBS-1716 |
| - In-sequence delivery                 |                              | TRUE                                                                                             |         | RBS-1717 |
| - Receiving window size                |                              | 2047                                                                                             |         | RBS-1718 |
| - Downlink RLC status info             |                              |                                                                                                  |         | RBS-1719 |
| - Timer_status_prohibit                |                              | 80                                                                                               |         | RBS-1720 |
| - Timer_EPC                            |                              | Not Present                                                                                      |         | RBS-1721 |
| - Missing PDU indicator                |                              | TRUE                                                                                             |         | RBS-1722 |
| - Timer_STATUS_periodic                |                              | Not Present                                                                                      |         | RBS-1723 |
| - One sided RLC re-establishment       |                              | FALSE                                                                                            |         | RBS-1724 |
| - Alternative E-bit interpretation     |                              | Not present                                                                                      |         | RBS-1725 |
| - Use special value of HE field        |                              | TRUE                                                                                             |         | RBS-1726 |
| - RB mapping info                      |                              |                                                                                                  |         | RBS-1727 |
| - Information for each                 |                              | 1 RBMuxOption                                                                                    |         | RBS-1728 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Condition | Value/remark                                                                                                                                                                                                                                                                              | Version | Index                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| multiplexing option<br>- RLC logical channel mapping indicator<br>- Number of uplink RLC logical channels<br>- Uplink transport channel type<br>- Logical channel identity<br>- E-DCH MAC-d flow identity<br>- CHOICE RLC PDU size<br>- Length indicator size<br>- Minimum UL RLC PDU size<br>- Largest UL RLC PDU size<br>- Include in scheduling info<br>- MAC logical channel priority<br>- Downlink RLC logical channel info<br>- Number of downlink RLC logical channels<br>- Downlink transport channel type<br>- DL DCH Transport channel identity<br>- DL DSCH Transport channel identity<br>- CHOICE <i>DL MAC header type</i><br>- DL HS-DSCH MAC-ehs<br>Queue Id<br>- Logical channel identity                                                                                                         |           | Not present<br>1<br>E-DCH<br>7<br>2<br>Flexible size<br>15 bit<br>16<br>2432<br>TRUE<br>8<br>1<br>HS-DSCH<br>Not present<br>Not present<br>MAC-ehs<br>0<br>7                                                                                                                              |         | RBS-1729<br>RBS-1730<br>RBS-1731<br>RBS-1732<br>RBS-1733<br>RBS-1734<br>RBS-1735<br>RBS-1736<br>RBS-1737<br>RBS-1738<br>RBS-1739<br>RBS-1740<br>RBS-1741<br>RBS-1742<br>RBS-1743<br>RBS-1744<br>RBS-1745<br>RBS-1746<br>RBS-1747                                                                                                                                                                             |
| - RAB information for setup<br><br>- RAB info<br>- RAB identity<br><br>- CN domain identity<br>- NAS Synchronization Indicator<br>- Re-establishment timer<br>- RB information to setup<br>- RB identity<br>- PDCP info<br>- Support for lossless SRNS relocation<br>- Max PDCP SN window size<br>- PDCP PDU header<br>- Header compression<br>information<br>- CHOICE RLC info type<br>- CHOICE Uplink RLC mode<br>- Transmission RLC discard<br>- CHOICE SDU discard mode<br>- MAX_DAT<br>- Transmission window size<br>- Timer_RST<br>- Max_RST<br>- Polling info<br>- Timer_poll_prohibit<br>- Timer_poll<br>- Poll_PDU<br>- Poll_SDU<br>- Last transmission PDU poll<br>- Last retransmission PDU poll<br>- Poll_Windows<br>- Timer_poll_periodic<br>- CHOICE Downlink RLC mode<br>- CHOICE Downlink RLC PDU | A44, A45  | <br><br><br><br><br><br><br><br>25<br>FALSE<br><br>Not present<br>Absent<br>Not present<br><br>RLC info<br>AM RLC<br><br>No Discard<br>15<br>2047<br>500<br>4<br><br>100<br>100<br>Not Present<br>1<br>TRUE<br>TRUE<br>50<br>Not Present<br>AM RLC<br>Reference to clause 6 Parameter Set | Rel-11  | RBS-1748<br><br>RBS-1749<br>RBS-1750<br><br>RBS-1751<br>RBS-1752<br>RBS-1753<br>RBS-1754<br>RBS-1755<br>RBS-1756<br>RBS-1757<br><br>RBS-1758<br>RBS-1759<br>RBS-1760<br><br>RBS-1761<br>RBS-1762<br>RBS-1763<br>RBS-1764<br>RBS-1765<br>RBS-1766<br>RBS-1767<br>RBS-1768<br>RBS-1769<br>RBS-1770<br>RBS-1771<br>RBS-1772<br>RBS-1773<br>RBS-1774<br>RBS-1775<br>RBS-1776<br>RBS-1777<br>RBS-1778<br>RBS-1779 |

| Information Element                        | Condition                                                                                                                                                                                                                                               | Value/remark                                                                    | Version                                                                         | Index                                                                            |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Size                                       |                                                                                                                                                                                                                                                         |                                                                                 |                                                                                 |                                                                                  |
| - Length indicator size                    |                                                                                                                                                                                                                                                         | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" |                                                                                 | RBS-1780                                                                         |
| - In-sequence delivery                     |                                                                                                                                                                                                                                                         | TRUE                                                                            |                                                                                 | RBS-1781                                                                         |
| - Receiving window size                    |                                                                                                                                                                                                                                                         | 2047                                                                            |                                                                                 | RBS-1782                                                                         |
| - Downlink RLC status info                 |                                                                                                                                                                                                                                                         |                                                                                 |                                                                                 | RBS-1783                                                                         |
| - Timer_status_prohibit                    |                                                                                                                                                                                                                                                         | 80                                                                              |                                                                                 | RBS-1784                                                                         |
| - Timer_EPC                                |                                                                                                                                                                                                                                                         | Not Present                                                                     |                                                                                 | RBS-1785                                                                         |
| - Missing PDU indicator                    |                                                                                                                                                                                                                                                         | TRUE                                                                            |                                                                                 | RBS-1786                                                                         |
| - Timer_STATUS_periodic                    |                                                                                                                                                                                                                                                         | Not Present                                                                     |                                                                                 | RBS-1787                                                                         |
| - Timer_Reordering                         |                                                                                                                                                                                                                                                         | 200                                                                             |                                                                                 |                                                                                  |
| - One sided RLC re-establishment           |                                                                                                                                                                                                                                                         | FALSE                                                                           |                                                                                 | RBS-1788                                                                         |
| - Alternative E-bit interpretation         |                                                                                                                                                                                                                                                         | Not present                                                                     |                                                                                 | RBS-1789                                                                         |
| - Use special value of HE field            |                                                                                                                                                                                                                                                         | TRUE                                                                            |                                                                                 | RBS-1790                                                                         |
| - RB mapping info                          |                                                                                                                                                                                                                                                         |                                                                                 |                                                                                 | RBS-1791                                                                         |
| - Information for each multiplexing option |                                                                                                                                                                                                                                                         | 1 RBMuxOption                                                                   |                                                                                 | RBS-1792                                                                         |
| - RLC logical channel mapping indicator    |                                                                                                                                                                                                                                                         | Not present                                                                     |                                                                                 | RBS-1793                                                                         |
| - Number of uplink RLC logical channels    |                                                                                                                                                                                                                                                         | 1                                                                               |                                                                                 | RBS-1794                                                                         |
| - Uplink transport channel type            |                                                                                                                                                                                                                                                         | E-DCH                                                                           |                                                                                 | RBS-1795                                                                         |
| - Logical channel identity                 |                                                                                                                                                                                                                                                         | 7                                                                               |                                                                                 | RBS-1796                                                                         |
| - E-DCH MAC-d flow identity                |                                                                                                                                                                                                                                                         | 2                                                                               |                                                                                 | RBS-1797                                                                         |
| - CHOICE RLC PDU size                      |                                                                                                                                                                                                                                                         | Flexible size                                                                   |                                                                                 | RBS-1798                                                                         |
| - Length indicator size                    |                                                                                                                                                                                                                                                         | 15 bit                                                                          |                                                                                 | RBS-1799                                                                         |
| - Minimum UL RLC PDU size                  |                                                                                                                                                                                                                                                         | 16                                                                              |                                                                                 | RBS-1800                                                                         |
| - Largest UL RLC PDU size                  |                                                                                                                                                                                                                                                         | 2432                                                                            |                                                                                 | RBS-1801                                                                         |
| - Include in scheduling info               |                                                                                                                                                                                                                                                         | TRUE                                                                            |                                                                                 | RBS-1802                                                                         |
| - MAC logical channel priority             |                                                                                                                                                                                                                                                         | 8                                                                               |                                                                                 | RBS-1803                                                                         |
| - Downlink RLC logical channel info        |                                                                                                                                                                                                                                                         |                                                                                 |                                                                                 | RBS-1804                                                                         |
| - Number of downlink RLC logical channels  |                                                                                                                                                                                                                                                         | 1                                                                               |                                                                                 | RBS-1805                                                                         |
| - Downlink transport channel type          |                                                                                                                                                                                                                                                         | HS-DSCH                                                                         |                                                                                 | RBS-1806                                                                         |
| - DL DCH Transport channel identity        |                                                                                                                                                                                                                                                         | Not present                                                                     |                                                                                 | RBS-1807                                                                         |
| - DL DSCH Transport channel identity       |                                                                                                                                                                                                                                                         | Not present                                                                     |                                                                                 | RBS-1808                                                                         |
| - CHOICE <i>DL MAC header type</i>         |                                                                                                                                                                                                                                                         | MAC-ehs                                                                         |                                                                                 | RBS-1809                                                                         |
| - DL HS-DSCH MAC-ehs                       |                                                                                                                                                                                                                                                         | 0                                                                               |                                                                                 | RBS-1810                                                                         |
| Queue Id                                   |                                                                                                                                                                                                                                                         |                                                                                 |                                                                                 |                                                                                  |
| - Logical channel identity                 |                                                                                                                                                                                                                                                         | 7                                                                               |                                                                                 | RBS-1811                                                                         |
| RB information to reconfigure list         | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17f, A18, A19, A19a, A20, A21, A22, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A29, A25c, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | Not Present                                                                     | Rel-5<br>Rel-6<br>Rel-7<br>Rel-7<br>Rel-8<br>Rel-8<br>Rel-9<br>Rel-10<br>Rel-11 | RBS-1812<br>RBS-1813<br>RBS-1814<br>RBS-1815<br>RBS-1816<br>RBS-1817<br>RBS-1818 |
| RB information to be affected              | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10                                                                                                                                                                                                            | Not Present                                                                     | Rel-5                                                                           | RBS-1819<br>RBS-1820                                                             |

| Information Element                        | Condition                                                                                                                                    | Value/remark        | Version                                                           | Index                                                                                |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                            | A12<br>, A17, A17a, A17f,<br>A18, A19, A20, A21,<br>A24<br>, A23<br><br>, A25a, A28, A29<br>A35<br>A38, A39, A40, A41,<br>A42, A43, A44, A45 |                     | Rel-6<br>Rel-7<br><br>Rel-7<br>Rel-8<br>Rel-8<br>Rel-10<br>Rel-11 | RBS-1821<br>RBS-1822<br><br>RBS-1823<br>RBS-1824                                     |
| RB information to be affected              | A13, A15 A19a,<br>A25b<br>, A17d, A17e<br>, A26                                                                                              |                     | Rel-6<br><br>Rel-7<br>Rel-8<br>Rel-9                              | RBS-1825<br><br>RBS-1826<br>RBS-1827<br>RBS-1828<br>RBS-1829<br>RBS-1830<br>RBS-1831 |
| - RB identity                              |                                                                                                                                              | 1 (UM DCCH for RRC) |                                                                   | RBS-1829                                                                             |
| - RB mapping info                          |                                                                                                                                              | 1 RBMuxOption       |                                                                   | RBS-1830                                                                             |
| - Information for each multiplexing option |                                                                                                                                              | Not Present         |                                                                   | RBS-1831                                                                             |
| - RLC logical channel mapping indicator    |                                                                                                                                              | 1                   |                                                                   | RBS-1832                                                                             |
| - Number of uplink RLC logical channels    |                                                                                                                                              | E-DCH               |                                                                   | RBS-1833                                                                             |
| - Uplink transport channel type            |                                                                                                                                              | 1                   |                                                                   | RBS-1834                                                                             |
| - Logical channel identity                 |                                                                                                                                              | 1                   |                                                                   | RBS-1835                                                                             |
| - E-DCH MAC-d flow identity                |                                                                                                                                              | Fixed size          |                                                                   | RBS-1836                                                                             |
| - CHOICE RLC PDU size                      |                                                                                                                                              | 1                   |                                                                   | RBS-1837                                                                             |
| - DDI                                      |                                                                                                                                              | 1 RLC PDU size      |                                                                   | RBS-1838                                                                             |
| - RLC PDU size list                        |                                                                                                                                              | 144 bits            |                                                                   | RBS-1839                                                                             |
| - RLC PDU size                             |                                                                                                                                              | FALSE               |                                                                   | RBS-1840                                                                             |
| - Include in scheduling info               |                                                                                                                                              | 1                   |                                                                   | RBS-1841                                                                             |
| - MAC logical channel priority             |                                                                                                                                              |                     |                                                                   | RBS-1842                                                                             |
| - Downlink RLC logical channel info        |                                                                                                                                              |                     |                                                                   | RBS-1843                                                                             |
| - Number of RLC logical channels           |                                                                                                                                              | 1                   |                                                                   | RBS-1844                                                                             |
| - Downlink transport channel type          |                                                                                                                                              | DCH                 |                                                                   | RBS-1845                                                                             |
| - DL DCH Transport channel identity        |                                                                                                                                              | 10                  |                                                                   | RBS-1846                                                                             |
| - DL DSCH Transport channel identity       |                                                                                                                                              | Not Present         |                                                                   | RBS-1847                                                                             |
| - Logical channel identity                 |                                                                                                                                              | 1                   |                                                                   | RBS-1848                                                                             |
| - RB identity                              |                                                                                                                                              | 2 (AM DCCH for RRC) |                                                                   | RBS-1849                                                                             |
| - RB mapping info                          |                                                                                                                                              | 1 RBMuxOption       |                                                                   | RBS-1850                                                                             |
| - Information for each multiplexing option |                                                                                                                                              | Not Present         |                                                                   | RBS-1851                                                                             |
| - RLC logical channel mapping indicator    |                                                                                                                                              | 1                   |                                                                   | RBS-1852                                                                             |
| - Number of uplink RLC logical channels    |                                                                                                                                              | E-DCH               |                                                                   | RBS-1853                                                                             |
| - Uplink transport channel type            |                                                                                                                                              | 2                   |                                                                   | RBS-1854                                                                             |
| - Logical channel identity                 |                                                                                                                                              | 1                   |                                                                   | RBS-1855                                                                             |
| - E-DCH MAC-d flow identity                |                                                                                                                                              | Fixed size          |                                                                   | RBS-1856                                                                             |
| - CHOICE RLC PDU size                      |                                                                                                                                              | 2                   |                                                                   | RBS-1857                                                                             |
| - DDI                                      |                                                                                                                                              | 1 RLC PDU size      |                                                                   | RBS-1858                                                                             |
| - RLC PDU size list                        |                                                                                                                                              | 144 bits            |                                                                   | RBS-1859                                                                             |
| - RLC PDU size                             |                                                                                                                                              | FALSE               |                                                                   | RBS-1860                                                                             |
| - Include in scheduling info               |                                                                                                                                              | 2                   |                                                                   | RBS-1861                                                                             |
| - MAC logical channel priority             |                                                                                                                                              |                     |                                                                   | RBS-1862                                                                             |
| - Downlink RLC logical channel info        |                                                                                                                                              |                     |                                                                   | RBS-1863                                                                             |
| - Number of RLC logical channels           |                                                                                                                                              | 1                   |                                                                   | RBS-1864                                                                             |
| - Downlink transport channel type          |                                                                                                                                              | DCH                 |                                                                   | RBS-1865                                                                             |

| Information Element                        | Condition                        | Value/remark                      | Version                 | Index                |
|--------------------------------------------|----------------------------------|-----------------------------------|-------------------------|----------------------|
| - DL DCH Transport channel identity        |                                  | 10                                |                         | RBS-1866             |
| - DL DSCH Transport channel identity       |                                  | Not Present                       |                         | RBS-1867             |
| - Logical channel identity                 |                                  | 2                                 |                         | RBS-1868             |
| - RB identity                              |                                  | 3 (AM DCCH for NAS High Priority) |                         | RBS-1869             |
| - RB mapping info                          |                                  |                                   |                         | RBS-1870             |
| - Information for each multiplexing option |                                  | 1 RBMuxOption                     |                         | RBS-1871             |
| - RLC logical channel mapping indicator    |                                  | Not Present                       |                         | RBS-1872             |
| - Number of uplink RLC logical channels    |                                  | 1                                 |                         | RBS-1873             |
| - Uplink transport channel type            |                                  | E-DCH                             |                         | RBS-1874             |
| - Logical channel identity                 |                                  | 3                                 |                         | RBS-1875             |
| - E-DCH MAC-d flow identity                |                                  | 1                                 |                         | RBS-1876             |
| - CHOICE RLC PDU size                      |                                  | Fixed size                        | Rel-8                   | RBS-1877             |
| - DDI                                      |                                  | 3                                 |                         | RBS-1878             |
| - RLC PDU size list                        |                                  | 1 RLC PDU size                    |                         | RBS-1879             |
| - RLC PDU size                             |                                  | 144 bits                          |                         | RBS-1880             |
| - Include in scheduling info               |                                  | FALSE                             |                         | RBS-1881             |
| - MAC logical channel priority             |                                  | 3                                 |                         | RBS-1882             |
| - Downlink RLC logical channel info        |                                  |                                   |                         | RBS-1883             |
| - Number of RLC logical channels           |                                  | 1                                 |                         | RBS-1884             |
| - Downlink transport channel type          |                                  | DCH                               |                         | RBS-1885             |
| - DL DCH Transport channel identity        |                                  | 10                                |                         | RBS-1886             |
| - DL DSCH Transport channel identity       |                                  | Not Present                       |                         | RBS-1887             |
| - Logical channel identity                 |                                  | 3                                 |                         | RBS-1888             |
| - RB identity                              |                                  | 4 (AM DCCH for NAS Low Priority)  |                         | RBS-1889             |
| - RB mapping info                          |                                  |                                   |                         | RBS-1890             |
| - Information for each multiplexing option |                                  | 1 RBMuxOption                     |                         | RBS-1891             |
| - RLC logical channel mapping indicator    |                                  | Not Present                       |                         | RBS-1892             |
| - Number of uplink RLC logical channels    |                                  | 1                                 |                         | RBS-1893             |
| - Uplink transport channel type            |                                  | E-DCH                             |                         | RBS-1894             |
| - Logical channel identity                 |                                  | 4                                 |                         | RBS-1895             |
| - E-DCH MAC-d flow identity                |                                  | 1                                 |                         | RBS-1896             |
| - CHOICE RLC PDU size                      |                                  | Fixed size                        | Rel-8                   | RBS-1897             |
| - DDI                                      |                                  | 4                                 |                         | RBS-1898             |
| - RLC PDU size list                        |                                  | 1 RLC PDU size                    |                         | RBS-1899             |
| - RLC PDU size                             |                                  | 144 bits                          |                         | RBS-1900             |
| - Include in scheduling info               |                                  | FALSE                             |                         | RBS-1901             |
| - MAC logical channel priority             |                                  | 4                                 |                         | RBS-1902             |
| - Downlink RLC logical channel info        |                                  |                                   |                         | RBS-1903             |
| - Number of RLC logical channels           |                                  | 1                                 |                         | RBS-1904             |
| - Downlink transport channel type          |                                  | DCH                               |                         | RBS-1905             |
| - DL DCH Transport channel identity        |                                  | 10                                |                         | RBS-1906             |
| - DL DSCH Transport channel identity       |                                  | Not Present                       |                         | RBS-1907             |
| - Logical channel identity                 |                                  | 4                                 |                         | RBS-1908             |
| RB information to be affected              | A14, A16<br>, A19b<br>, A31, A32 |                                   | Rel-6<br>Rel-7<br>Rel-9 | RBS-1909             |
| - RB identity                              |                                  | 1 (UM DCCH for RRC)               |                         | RBS-1910             |
| - RB mapping info                          |                                  |                                   |                         | RBS-1911<br>RBS-1912 |



| Information Element                        | Condition | Value/remark                      | Version | Index    |
|--------------------------------------------|-----------|-----------------------------------|---------|----------|
| - Information for each multiplexing option |           | 1 RBMuxOption                     | Rel-8   | RBS-1913 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBS-1914 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBS-1915 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBS-1916 |
| - Logical channel identity                 |           | 1                                 |         | RBS-1917 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBS-1918 |
| - CHOICE RLC PDU size                      |           | Fixed size                        |         | RBS-1919 |
| - DDI                                      |           | 1                                 |         | RBS-1920 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBS-1921 |
| - RLC PDU size                             |           | 144 bits                          |         | RBS-1922 |
| - Include in scheduling info               |           | FALSE                             |         | RBS-1923 |
| - MAC logical channel priority             |           | 1                                 |         | RBS-1924 |
| - Downlink RLC logical channel info        |           |                                   |         | RBS-1925 |
| - Number of RLC logical channels           |           | 1                                 |         | RBS-1926 |
| - Downlink transport channel type          |           | HS-DSCH                           |         | RBS-1927 |
| - DL DCH Transport channel identity        |           | Not present                       |         | RBS-1928 |
| - DL DSCH Transport channel identity       |           | Not present                       |         | RBS-1929 |
| - DL HS-DSCH MAC-d flow identity           |           | 1                                 |         | RBS-1930 |
| - Logical channel identity                 |           | 1                                 |         | RBS-1931 |
| - RB identity                              |           | 2 (AM DCCH for RRC)               |         | RBS-1932 |
| - RB mapping info                          |           |                                   |         | RBS-1933 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBS-1934 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBS-1935 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBS-1936 |
| - Uplink transport channel type            |           | E-DCH                             | Rel-8   | RBS-1937 |
| - Logical channel identity                 |           | 2                                 |         | RBS-1938 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBS-1939 |
| - CHOICE RLC PDU size                      |           | Fixed size                        |         | RBS-1940 |
| - DDI                                      |           | 2                                 |         | RBS-1941 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBS-1942 |
| - RLC PDU size                             |           | 144 bits                          |         | RBS-1943 |
| - Include in scheduling info               |           | FALSE                             |         | RBS-1944 |
| - MAC logical channel priority             |           | 2                                 |         | RBS-1945 |
| - Downlink RLC logical channel info        |           |                                   |         | RBS-1946 |
| - Number of RLC logical channels           |           | 1                                 |         | RBS-1947 |
| - Downlink transport channel type          |           | HS-DSCH                           |         | RBS-1948 |
| - DL DCH Transport channel identity        |           | Not Present                       |         | RBS-1949 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBS-1950 |
| - DL HS-DSCH MAC-d flow identity           |           | 1                                 |         | RBS-1951 |
| - Logical channel identity                 |           | 2                                 |         | RBS-1952 |
| - RB identity                              |           | 3 (AM DCCH for NAS High Priority) |         | RBS-1953 |
| - RB mapping info                          |           |                                   |         | RBS-1954 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBS-1955 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBS-1956 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBS-1957 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBS-1958 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Condition                      | Value/remark                     | Version  | Index    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|----------|
| <div>- Logical channel identity</div> <div>- E-DCH MAC-d flow identity</div> <div>- CHOICE RLC PDU size</div> <div>- DDI</div> <div>- RLC PDU size list</div> <div>- RLC PDU size</div> <div>- Include in scheduling info</div> <div>- MAC logical channel priority</div> <div>- Downlink RLC logical channel info</div> <div>- Number of RLC logical channels</div> <div>- Downlink transport channel type</div> <div>- DL DCH Transport channel identity</div> <div>- DL DSCH Transport channel identity</div> <div>- DL HS-DSCH MAC-d flow identity</div> <div>- Logical channel identity</div> <div>- RB identity</div> <div>- RB mapping info</div> <div>- Information for each multiplexing option</div> <div>- RLC logical channel mapping indicator</div> <div>- Number of uplink RLC logical channels</div> <div>- Uplink transport channel type</div> <div>- Logical channel identity</div> <div>- E-DCH MAC-d flow identity</div> <div>- CHOICE RLC PDU size</div> <div>- DDI</div> <div>- RLC PDU size list</div> <div>- RLC PDU size</div> <div>- Include in scheduling info</div> <div>- MAC logical channel priority</div> <div>- Downlink RLC logical channel info</div> <div>- Number of RLC logical channels</div> <div>- Downlink transport channel type</div> <div>- DL DCH Transport channel identity</div> <div>- DL DSCH Transport channel identity</div> <div>- DL HS-DSCH MAC-d flow identity</div> <div>- Logical channel identity</div> |                                | 3                                | Rel-8    | RBS-1959 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1                                |          | RBS-1960 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | Fixed size                       |          | RBS-1961 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 3                                |          | RBS-1962 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1 RLC PDU size                   |          | RBS-1963 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 144 bits                         |          | RBS-1964 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | FALSE                            |          | RBS-1965 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 3                                |          | RBS-1966 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |                                  |          | RBS-1967 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1                                |          | RBS-1968 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | HS-DSCH                          | RBS-1969 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | Not Present                      | RBS-1970 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | Not Present                      | RBS-1971 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1                                | RBS-1972 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 3                                | RBS-1973 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 4 (AM DCCH for NAS Low Priority) | RBS-1974 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1 RBMuxOption                    | RBS-1975 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | Not Present                      | RBS-1976 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | Not Present                      | RBS-1977 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1                                | RBS-1978 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | E-DCH                            | RBS-1979 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 4                                | RBS-1980 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1                                | RBS-1981 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | Fixed size                       | RBS-1982 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 4                                | RBS-1983 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1 RLC PDU size                   | RBS-1984 |          |
| 144 bits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RBS-1985                       |                                  |          |          |
| FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RBS-1986                       |                                  |          |          |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RBS-1987                       |                                  |          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RBS-1988                       |                                  |          |          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RBS-1989                       |                                  |          |          |
| HS-DSCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RBS-1990                       |                                  |          |          |
| Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RBS-1991                       |                                  |          |          |
| Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RBS-1992                       |                                  |          |          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RBS-1993                       |                                  |          |          |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RBS-1994                       |                                  |          |          |
| RB information to be affected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A17b, A17c, A22, A28a A25 A25c |                                  | Rel-7    | RBS-1995 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |                                  | Rel-8    | RBS-1996 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1 (UM DCCH for RRC)              | Rel-9    | RBS-1997 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1 RBMuxOption                    |          | RBS-1998 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | Not Present                      |          | RBS-1999 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | Not Present                      |          | RBS-2000 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1                                |          | RBS-2001 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | E-DCH                            |          | RBS-2002 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1                                |          | RBS-2003 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1                                |          | RBS-2004 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | Fixed size                       | Rel-8    | RBS-2005 |

| Information Element                 | Condition | Value/remark                      | Version | Index    |
|-------------------------------------|-----------|-----------------------------------|---------|----------|
| - DDI                               |           | 1                                 |         | RBS-2006 |
| - RLC PDU size list                 |           | 1 RLC PDU size                    |         | RBS-2007 |
| - RLC PDU size                      |           | 144 bits                          |         | RBS-2008 |
| - Include in scheduling info        |           | FALSE                             |         | RBS-2009 |
| - MAC logical channel priority      |           | 1                                 |         | RBS-2010 |
| - Downlink RLC logical channel      |           |                                   |         | RBS-2011 |
| info                                |           |                                   |         |          |
| - Number of RLC logical             |           | 1                                 |         | RBS-2012 |
| channels                            |           |                                   |         |          |
| - Downlink transport channel        |           | HS-DSCH                           |         | RBS-2013 |
| type                                |           |                                   |         |          |
| - DL DCH Transport channel          |           | Not present                       |         | RBS-2014 |
| identity                            |           |                                   |         |          |
| - DL DSCH Transport channel         |           | Not present                       |         | RBS-2015 |
| identity                            |           |                                   |         |          |
| - CHOICE <i>DL MAC header type</i>  |           | MAC-ehs                           |         | RBS-2016 |
| - DL HS-DSCH MAC-ehs                |           | 1                                 |         | RBS-2017 |
| Queue Id                            |           |                                   |         |          |
| - Logical channel identity          |           | 1                                 |         | RBS-2018 |
| - RB identity                       |           | 2 (AM DCCH for RRC)               |         | RBS-2019 |
| - RB mapping info                   |           |                                   |         | RBS-2020 |
| - Information for each multiplexing |           | 1 RBMuxOption                     |         | RBS-2021 |
| option                              |           |                                   |         |          |
| - RLC logical channel mapping       |           | Not Present                       |         | RBS-2022 |
| indicator                           |           |                                   |         |          |
| - Number of uplink RLC logical      |           | 1                                 |         | RBS-2023 |
| channels                            |           |                                   |         |          |
| - Uplink transport channel type     |           | E-DCH                             |         | RBS-2024 |
| - Logical channel identity          |           | 2                                 |         | RBS-2025 |
| - E-DCH MAC-d flow identity         |           | 1                                 |         | RBS-2026 |
| - CHOICE RLC PDU size               |           | Fixed size                        | Rel-8   | RBS-2027 |
| - DDI                               |           | 2                                 |         | RBS-2028 |
| - RLC PDU size list                 |           | 1 RLC PDU size                    |         | RBS-2029 |
| - RLC PDU size                      |           | 144 bits                          |         | RBS-2030 |
| - Include in scheduling info        |           | FALSE                             |         | RBS-2031 |
| - MAC logical channel priority      |           | 2                                 |         | RBS-2032 |
| - Downlink RLC logical channel      |           |                                   |         | RBS-2033 |
| info                                |           |                                   |         |          |
| - Number of RLC logical             |           | 1                                 |         | RBS-2034 |
| channels                            |           |                                   |         |          |
| - Downlink transport channel        |           | HS-DSCH                           |         | RBS-2035 |
| type                                |           |                                   |         |          |
| - DL DCH Transport channel          |           | Not Present                       |         | RBS-2036 |
| identity                            |           |                                   |         |          |
| - DL DSCH Transport channel         |           | Not Present                       |         | RBS-2037 |
| identity                            |           |                                   |         |          |
| - CHOICE <i>DL MAC header type</i>  |           | MAC-ehs                           |         | RBS-2038 |
| - DL HS-DSCH MAC-ehs                |           | 1                                 |         | RBS-2039 |
| Queue Id                            |           |                                   |         |          |
| - Logical channel identity          |           | 2                                 |         | RBS-2040 |
| - RB identity                       |           | 3 (AM DCCH for NAS High Priority) |         | RBS-2041 |
| - RB mapping info                   |           |                                   |         | RBS-2042 |
| - Information for each multiplexing |           | 1 RBMuxOption                     |         | RBS-2043 |
| option                              |           |                                   |         |          |
| - RLC logical channel mapping       |           | Not Present                       |         | RBS-2044 |
| indicator                           |           |                                   |         |          |
| - Number of uplink RLC logical      |           | 1                                 |         | RBS-2045 |
| channels                            |           |                                   |         |          |
| - Uplink transport channel type     |           | E-DCH                             |         | RBS-2046 |
| - Logical channel identity          |           | 3                                 |         | RBS-2047 |
| - E-DCH MAC-d flow identity         |           | 1                                 |         | RBS-2048 |
| - CHOICE RLC PDU size               |           | Fixed size                        | Rel-8   | RBS-2049 |
| - DDI                               |           | 3                                 |         | RBS-2050 |
| - RLC PDU size list                 |           | 1 RLC PDU size                    |         | RBS-2051 |
| - RLC PDU size                      |           | 144 bits                          |         | RBS-2052 |
| - Include in scheduling info        |           | FALSE                             |         | RBS-2053 |
| - MAC logical channel priority      |           | 3                                 |         | RBS-2054 |

| Information Element                                                                          | Condition                     | Value/remark                     | Version         | Index    |
|----------------------------------------------------------------------------------------------|-------------------------------|----------------------------------|-----------------|----------|
| <ul style="list-style-type: none"> <li>- Downlink RLC logical channel info</li> </ul>        |                               |                                  |                 | RBS-2055 |
| <ul style="list-style-type: none"> <li>- Number of RLC logical channels</li> </ul>           |                               | 1                                |                 | RBS-2056 |
| <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> </ul>          |                               | HS-DSCH                          |                 | RBS-2057 |
| <ul style="list-style-type: none"> <li>- DL DCH Transport channel identity</li> </ul>        |                               | Not Present                      |                 | RBS-2058 |
| <ul style="list-style-type: none"> <li>- DL DSCH Transport channel identity</li> </ul>       |                               | Not Present                      |                 | RBS-2059 |
| <ul style="list-style-type: none"> <li>- CHOICE <i>DL MAC header type</i></li> </ul>         |                               | MAC-ehs                          |                 | RBS-2060 |
| <ul style="list-style-type: none"> <li>- DL HS-DSCH MAC-ehs</li> </ul>                       |                               | 1                                |                 | RBS-2061 |
| Queue Id                                                                                     |                               |                                  |                 |          |
| <ul style="list-style-type: none"> <li>- Logical channel identity</li> </ul>                 |                               | 3                                |                 | RBS-2062 |
| <ul style="list-style-type: none"> <li>- RB identity</li> </ul>                              |                               | 4 (AM DCCH for NAS Low Priority) |                 | RBS-2063 |
| <ul style="list-style-type: none"> <li>- RB mapping info</li> </ul>                          |                               |                                  |                 | RBS-2064 |
| <ul style="list-style-type: none"> <li>- Information for each multiplexing option</li> </ul> |                               | 1 RBMuxOption                    |                 | RBS-2065 |
| <ul style="list-style-type: none"> <li>- RLC logical channel mapping indicator</li> </ul>    |                               | Not Present                      |                 | RBS-2066 |
| <ul style="list-style-type: none"> <li>- Number of uplink RLC logical channels</li> </ul>    |                               | 1                                |                 | RBS-2067 |
| <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> </ul>            |                               | E-DCH                            |                 | RBS-2068 |
| <ul style="list-style-type: none"> <li>- Logical channel identity</li> </ul>                 |                               | 4                                |                 | RBS-2069 |
| <ul style="list-style-type: none"> <li>- E-DCH MAC-d flow identity</li> </ul>                |                               | 1                                |                 | RBS-2070 |
| <ul style="list-style-type: none"> <li>- CHOICE RLC PDU size</li> </ul>                      |                               | Fixed size                       | Rel-8           | RBS-2071 |
| <ul style="list-style-type: none"> <li>- DDI</li> </ul>                                      |                               | 4                                |                 | RBS-2072 |
| <ul style="list-style-type: none"> <li>- RLC PDU size list</li> </ul>                        |                               | 1 RLC PDU size                   |                 | RBS-2073 |
| <ul style="list-style-type: none"> <li>- RLC PDU size</li> </ul>                             |                               | 144 bits                         |                 | RBS-2074 |
| <ul style="list-style-type: none"> <li>- Include in scheduling info</li> </ul>               |                               | FALSE                            |                 | RBS-2075 |
| <ul style="list-style-type: none"> <li>- MAC logical channel priority</li> </ul>             |                               | 4                                |                 | RBS-2076 |
| <ul style="list-style-type: none"> <li>- Downlink RLC logical channel info</li> </ul>        |                               |                                  |                 | RBS-2077 |
| <ul style="list-style-type: none"> <li>- Number of RLC logical channels</li> </ul>           |                               | 1                                |                 | RBS-2078 |
| <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> </ul>          |                               | HS-DSCH                          |                 | RBS-2079 |
| <ul style="list-style-type: none"> <li>- DL DCH Transport channel identity</li> </ul>        |                               | Not Present                      |                 | RBS-2080 |
| <ul style="list-style-type: none"> <li>- DL DSCH Transport channel identity</li> </ul>       |                               | Not Present                      |                 | RBS-2081 |
| <ul style="list-style-type: none"> <li>- CHOICE <i>DL MAC header type</i></li> </ul>         |                               | MAC-ehs                          |                 | RBS-2082 |
| <ul style="list-style-type: none"> <li>- DL HS-DSCH MAC-ehs</li> </ul>                       |                               | 1                                |                 | RBS-2083 |
| Queue Id                                                                                     |                               |                                  |                 |          |
| <ul style="list-style-type: none"> <li>- Logical channel identity</li> </ul>                 |                               | 4                                |                 | RBS-2084 |
| RB information to be affected                                                                | A27, A27a, A33, A34, A36, A37 |                                  | Rel-8<br>Rel-10 | RBS-2085 |
| <ul style="list-style-type: none"> <li>- RB identity</li> </ul>                              |                               | 1 (UM DCCH for RRC)              |                 | RBS-2086 |
| <ul style="list-style-type: none"> <li>- RB mapping info</li> </ul>                          |                               |                                  |                 | RBS-2087 |
| <ul style="list-style-type: none"> <li>- Information for each multiplexing option</li> </ul> |                               | 1 RBMuxOption                    |                 | RBS-2088 |
| <ul style="list-style-type: none"> <li>- RLC logical channel mapping indicator</li> </ul>    |                               | Not Present                      |                 | RBS-2089 |
| <ul style="list-style-type: none"> <li>- Number of uplink RLC logical channels</li> </ul>    |                               | 1                                |                 | RBS-2090 |
| <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> </ul>            |                               | E-DCH                            |                 | RBS-2091 |
| <ul style="list-style-type: none"> <li>- Logical channel identity</li> </ul>                 |                               | 1                                |                 | RBS-2092 |
| <ul style="list-style-type: none"> <li>- E-DCH MAC-d flow identity</li> </ul>                |                               | 1                                |                 | RBS-2093 |
| <ul style="list-style-type: none"> <li>- CHOICE RLC PDU size</li> </ul>                      |                               | Fixed size                       |                 | RBS-2094 |
| <ul style="list-style-type: none"> <li>- DDI</li> </ul>                                      |                               | Not Present                      |                 | RBS-2095 |
| <ul style="list-style-type: none"> <li>- RLC PDU size list</li> </ul>                        |                               | 1 RLC PDU size                   |                 | RBS-2096 |
| <ul style="list-style-type: none"> <li>- RLC PDU size</li> </ul>                             |                               | 144 bits                         |                 | RBS-2097 |
| <ul style="list-style-type: none"> <li>- Include in scheduling info</li> </ul>               |                               | FALSE                            |                 | RBS-2098 |
| <ul style="list-style-type: none"> <li>- MAC logical channel priority</li> </ul>             |                               | 1                                |                 | RBS-2099 |
| <ul style="list-style-type: none"> <li>- Downlink RLC logical channel info</li> </ul>        |                               |                                  |                 | RBS-2100 |

| Information Element                        | Condition | Value/remark                      | Version | Index    |
|--------------------------------------------|-----------|-----------------------------------|---------|----------|
| - Number of RLC logical channels           |           | 1                                 |         | RBS-2101 |
| - Downlink transport channel type          |           | HS-DSCH                           |         | RBS-2102 |
| - DL DCH Transport channel identity        |           | Not present                       |         | RBS-2103 |
| - DL DSCH Transport channel identity       |           | Not present                       |         | RBS-2104 |
| - CHOICE <i>DL MAC header type</i>         |           | MAC-ehs                           |         | RBS-2105 |
| - DL HS-DSCH MAC-ehs                       |           | 1                                 |         | RBS-2106 |
| Queue Id                                   |           |                                   |         |          |
| - Logical channel identity                 |           | 1                                 |         | RBS-2107 |
| - RB identity                              |           | 2 (AM DCCH for RRC)               |         | RBS-2108 |
| - RB mapping info                          |           |                                   |         | RBS-2109 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBS-2110 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBS-2111 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBS-2112 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBS-2113 |
| - Logical channel identity                 |           | 2                                 |         | RBS-2114 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBS-2115 |
| - CHOICE RLC PDU size                      |           | Fixed size                        |         | RBS-2116 |
| - DDI                                      |           | Not Present                       |         | RBS-2117 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBS-2118 |
| - RLC PDU size                             |           | 144 bits                          |         | RBS-2119 |
| - Include in scheduling info               |           | FALSE                             |         | RBS-2120 |
| - MAC logical channel priority             |           | 2                                 |         | RBS-2121 |
| - Downlink RLC logical channel info        |           |                                   |         | RBS-2122 |
| - Number of RLC logical channels           |           | 1                                 |         | RBS-2123 |
| - Downlink transport channel type          |           | HS-DSCH                           |         | RBS-2124 |
| - DL DCH Transport channel identity        |           | Not Present                       |         | RBS-2125 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBS-2126 |
| - CHOICE <i>DL MAC header type</i>         |           | MAC-ehs                           |         | RBS-2127 |
| - DL HS-DSCH MAC-ehs                       |           | 1                                 |         | RBS-2128 |
| Queue Id                                   |           |                                   |         |          |
| - Logical channel identity                 |           | 2                                 |         | RBS-2129 |
| - RB identity                              |           | 3 (AM DCCH for NAS High Priority) |         | RBS-2130 |
| - RB mapping info                          |           |                                   |         | RBS-2131 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBS-2132 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBS-2133 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBS-2134 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBS-2135 |
| - Logical channel identity                 |           | 3                                 |         | RBS-2136 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBS-2137 |
| - CHOICE RLC PDU size                      |           | Fixed size                        |         | RBS-2138 |
| - DDI                                      |           | Not Present                       |         | RBS-2139 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBS-2140 |
| - RLC PDU size                             |           | 144 bits                          |         | RBS-2141 |
| - Include in scheduling info               |           | FALSE                             |         | RBS-2142 |
| - MAC logical channel priority             |           | 3                                 |         | RBS-2143 |
| - Downlink RLC logical channel info        |           |                                   |         | RBS-2144 |
| - Number of RLC logical channels           |           | 1                                 |         | RBS-2145 |
| - Downlink transport channel type          |           | HS-DSCH                           |         | RBS-2146 |

| Information Element                 | Condition | Value/remark                     | Version | Index    |
|-------------------------------------|-----------|----------------------------------|---------|----------|
| identity                            |           | Not Present                      |         | RBS-2147 |
| identity                            |           | Not Present                      |         | RBS-2148 |
| - CHOICE <i>DL MAC header type</i>  |           | MAC-ehs                          |         | RBS-2149 |
| - DL HS-DSCH MAC-ehs                |           | 1                                |         | RBS-2150 |
| Queue Id                            |           |                                  |         |          |
| - Logical channel identity          |           | 3                                |         | RBS-2151 |
| - RB identity                       |           | 4 (AM DCCH for NAS Low Priority) |         | RBS-2152 |
| - RB mapping info                   |           |                                  |         | RBS-2153 |
| - Information for each multiplexing |           | 1 RBMuxOption                    |         | RBS-2154 |
| option                              |           |                                  |         |          |
| - RLC logical channel mapping       |           | Not Present                      |         | RBS-2155 |
| indicator                           |           |                                  |         |          |
| - Number of uplink RLC logical      |           | 1                                |         | RBS-2156 |
| channels                            |           |                                  |         |          |
| - Uplink transport channel type     |           | E-DCH                            |         | RBS-2157 |
| - Logical channel identity          |           | 4                                |         | RBS-2158 |
| - E-DCH MAC-d flow identity         |           | 1                                |         | RBS-2159 |
| - CHOICE RLC PDU size               |           | Fixed size                       |         | RBS-2160 |
| - DDI                               |           | Not Present                      |         | RBS-2161 |
| - RLC PDU size list                 |           | 1 RLC PDU size                   |         | RBS-2162 |
| - RLC PDU size                      |           | 144 bits                         |         | RBS-2163 |
| - Include in scheduling info        |           | FALSE                            |         | RBS-2164 |
| - MAC logical channel priority      |           | 4                                |         | RBS-2165 |
| - Downlink RLC logical channel      |           |                                  |         | RBS-2166 |
| info                                |           |                                  |         |          |
| - Number of RLC logical             |           | 1                                |         | RBS-2167 |
| channels                            |           |                                  |         |          |
| - Downlink transport channel        |           | HS-DSCH                          |         | RBS-2168 |
| type                                |           |                                  |         |          |
| - DL DCH Transport channel          |           | Not Present                      |         | RBS-2169 |
| identity                            |           |                                  |         |          |
| - DL DSCH Transport channel         |           | Not Present                      |         | RBS-2170 |
| identity                            |           |                                  |         |          |
| - CHOICE <i>DL MAC header type</i>  |           | MAC-ehs                          |         | RBS-2171 |
| - DL HS-DSCH MAC-ehs                |           | 1                                |         | RBS-2172 |
| Queue Id                            |           |                                  |         |          |
| - Logical channel identity          |           | 4                                |         | RBS-2173 |
| RB information to be affected       | A30       |                                  | Rel-8   | RBS-2174 |
| - RB identity                       |           | 1 (UM DCCH for RRC)              |         | RBS-2175 |
| - RB mapping info                   |           |                                  |         | RBS-2176 |
| - Information for each multiplexing |           | 1 RBMuxOption                    |         | RBS-2177 |
| option                              |           |                                  |         |          |
| - RLC logical channel mapping       |           | Not Present                      |         | RBS-2178 |
| indicator                           |           |                                  |         |          |
| - Number of uplink RLC logical      |           | 1                                |         | RBS-2179 |
| channels                            |           |                                  |         |          |
| - Uplink transport channel type     |           | E-DCH                            |         | RBS-2180 |
| - Logical channel identity          |           | 1                                |         | RBS-2181 |
| - E-DCH MAC-d flow identity         |           | 3                                |         | RBS-2182 |
| - CHOICE RLC PDU size               |           | Fixed size                       |         | RBS-2183 |
| - DDI                               |           | 0 (Not applicable for MAC-i/is)  |         | RBS-2184 |
| - RLC PDU size list                 |           | 1 RLC PDU size                   |         | RBS-2185 |
| - RLC PDU size                      |           | 144 bits                         |         | RBS-2186 |
| - Include in scheduling info        |           | FALSE                            |         | RBS-2187 |
| - MAC logical channel priority      |           | 1                                |         | RBS-2188 |
| - Downlink RLC logical channel      |           |                                  |         | RBS-2189 |
| info                                |           |                                  |         |          |
| - Number of RLC logical             |           | 1                                |         | RBS-2190 |
| channels                            |           |                                  |         |          |
| - Downlink transport channel        |           | HS-DSCH                          |         | RBS-2191 |
| type                                |           |                                  |         |          |
| - DL DCH Transport channel          |           | Not present                      |         | RBS-2192 |
| identity                            |           |                                  |         |          |
| - DL DSCH Transport channel         |           | Not present                      |         | RBS-2193 |
| identity                            |           |                                  |         |          |

| Information Element                        | Condition | Value/remark                      | Version | Index    |
|--------------------------------------------|-----------|-----------------------------------|---------|----------|
| - CHOICE <i>DL MAC header type</i>         |           | MAC-ehs                           |         | RBS-2194 |
| - DL HS-DSCH MAC-ehs                       |           | 3                                 |         | RBS-2195 |
| Queue Id                                   |           |                                   |         |          |
| - Logical channel identity                 |           | 1                                 |         | RBS-2196 |
| - RB identity                              |           | 2 (AM DCCH for RRC)               |         | RBS-2197 |
| - RB mapping info                          |           |                                   |         | RBS-2198 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBS-2199 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBS-2200 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBS-2201 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBS-2202 |
| - Logical channel identity                 |           | 2                                 |         | RBS-2203 |
| - E-DCH MAC-d flow identity                |           | 3                                 |         | RBS-2204 |
| - CHOICE RLC PDU size                      |           | Fixed size                        |         | RBS-2205 |
| - DDI                                      |           | 0 (Not applicable for MAC-i/is)   |         | RBS-2206 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBS-2207 |
| - RLC PDU size                             |           | 144 bits                          |         | RBS-2208 |
| - Include in scheduling info               |           | FALSE                             |         | RBS-2209 |
| - MAC logical channel priority             |           | 2                                 |         | RBS-2210 |
| - Downlink RLC logical channel info        |           |                                   |         | RBS-2211 |
| - Number of RLC logical channels           |           | 1                                 |         | RBS-2212 |
| - Downlink transport channel type          |           | HS-DSCH                           |         | RBS-2213 |
| - DL DCH Transport channel identity        |           | Not Present                       |         | RBS-2214 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBS-2215 |
| - CHOICE <i>DL MAC header type</i>         |           | MAC-ehs                           |         | RBS-2216 |
| - DL HS-DSCH MAC-ehs                       |           | 3                                 |         | RBS-2217 |
| Queue Id                                   |           |                                   |         |          |
| - Logical channel identity                 |           | 2                                 |         | RBS-2218 |
| - RB identity                              |           | 3 (AM DCCH for NAS High Priority) |         | RBS-2219 |
| - RB mapping info                          |           |                                   |         | RBS-2220 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBS-2221 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBS-2222 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBS-2223 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBS-2224 |
| - Logical channel identity                 |           | 3                                 |         | RBS-2225 |
| - E-DCH MAC-d flow identity                |           | 3                                 |         | RBS-2226 |
| - CHOICE RLC PDU size                      |           | Fixed size                        |         | RBS-2227 |
| - DDI                                      |           | 0 (Not applicable for MAC-i/is)   |         | RBS-2228 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBS-2229 |
| - RLC PDU size                             |           | 144 bits                          |         | RBS-2230 |
| - Include in scheduling info               |           | FALSE                             |         | RBS-2231 |
| - MAC logical channel priority             |           | 3                                 |         | RBS-2232 |
| - Downlink RLC logical channel info        |           |                                   |         | RBS-2233 |
| - Number of RLC logical channels           |           | 1                                 |         | RBS-2234 |
| - Downlink transport channel type          |           | HS-DSCH                           |         | RBS-2235 |
| - DL DCH Transport channel identity        |           | Not Present                       |         | RBS-2236 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBS-2237 |
| - CHOICE <i>DL MAC header type</i>         |           | MAC-ehs                           |         | RBS-2238 |
| - DL HS-DSCH MAC-ehs                       |           | 3                                 |         | RBS-2239 |
| Queue Id                                   |           |                                   |         |          |
| - Logical channel identity                 |           | 3                                 |         | RBS-2240 |
| - RB identity                              |           | 4 (AM DCCH for NAS Low Priority)  |         | RBS-2241 |

Rel-8

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Condition                                                                                                                                                                                                                                                                                            | Value/remark   | Version                                                                         | Index    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------|----------|
| - RB mapping info<br>- Information for each multiplexing option<br>- RLC logical channel mapping indicator<br>- Number of uplink RLC logical channels<br>- Uplink transport channel type<br>- Logical channel identity<br>- E-DCH MAC-d flow identity<br>- CHOICE RLC PDU size<br>- DDI<br>- RLC PDU size list<br>- RLC PDU size<br>- Include in scheduling info<br>- MAC logical channel priority<br>- Downlink RLC logical channel info<br>- Number of RLC logical channels<br>- Downlink transport channel type<br>- DL DCH Transport channel identity<br>- DL DSCH Transport channel identity<br>- CHOICE <i>DL MAC header type</i><br>- DL HS-DSCH MAC-ehs<br>Queue Id<br>- Logical channel identity |                                                                                                                                                                                                                                                                                                      | 1 RBMuxOption  | Rel-8                                                                           | RBS-2242 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      |                |                                                                                 | RBS-2243 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      | 1              |                                                                                 | RBS-2245 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      | E-DCH          |                                                                                 | RBS-2246 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      | 4              |                                                                                 | RBS-2247 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      | 3              |                                                                                 | RBS-2248 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      | Fixed size     |                                                                                 | RBS-2249 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      | 4              |                                                                                 | RBS-2250 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      | 1 RLC PDU size |                                                                                 | RBS-2251 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      | 144 bits       |                                                                                 | RBS-2252 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      | FALSE          |                                                                                 | RBS-2253 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      | 4              |                                                                                 | RBS-2254 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      |                |                                                                                 | RBS-2255 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      | 1              |                                                                                 | RBS-2256 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      | HS-DSCH        |                                                                                 | RBS-2257 |
| Downlink counter synchronization info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A24, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A29, A30, A31, A32, A25c, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | Not Present    | Rel-5<br>Rel-6<br>Rel-7<br>Rel-7<br>Rel-8<br>Rel-8<br>Rel-9<br>Rel-10<br>Rel-11 | RBS-2263 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      |                |                                                                                 | RBS-2264 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      |                |                                                                                 | RBS-2266 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      |                |                                                                                 | RBS-2267 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      |                |                                                                                 | RBS-2268 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      |                |                                                                                 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      |                |                                                                                 |          |
| PDCP ROHC target mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f, A18, A19, A19a, A19b, A20, A21, A22, A24, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A29, A30                                                                                                                       | Not Present    | Rel-5<br>Rel-6<br>Rel-7<br>Rel-7<br>Rel-8<br>Rel-8                              | RBS-2270 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                      |                |                                                                                 | RBS-2271 |
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| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Condition                                                                                                                                                                                  | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Version                                                      | Index                                                                                                                                                                                                                                                                                                                            |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | , A31, A32, A25c<br>, A33, A34, A35,<br>A36, A37<br>A38, A39, A40, A41,<br>A42, A43, A44, A45                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rel-9<br>Rel-10<br><br>Rel-11                                | RBS-2275                                                                                                                                                                                                                                                                                                                         |
| UL Transport channel information for all transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A1, A2, A3, A4, A5,<br>A6, A7, A8, A11<br>, A9, A10<br>, A17, A17a, A17f,<br>A18<br>, A25a, A28<br>, A31, A32<br>, A33, A34, A35,<br>A36, A37<br>A38, A39, A40, A41,<br>A42, A43, A44, A45 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rel-5<br>Rel-7<br><br>Rel-8<br>Rel-9<br>Rel-10<br><br>Rel-11 | RBS-2276<br><br>RBS-2277<br>RBS-2278<br><br>RBS-2279<br>RBS-2280<br><br><br>RBS-2281<br>RBS-2282<br>RBS-2283<br>RBS-2284<br>RBS-2285<br>RBS-2286<br>RBS-2287<br>RBS-2288<br><br>RBS-2289<br><br>RBS-2290<br><br>RBS-2291<br><br>RBS-2292<br>RBS-2293<br><br>RBS-2294<br><br><br>RBS-2295<br><br>RBS-2296<br>RBS-2297<br>RBS-2298 |
| <ul style="list-style-type: none"> <li>- PRACH TFCS</li> <li>- CHOICE mode</li> <li>- TFC subset</li> <li>- UL DCH TFCS</li> <li>- CHOICE TFCI signalling</li> <li>- TFCI Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfigure information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- CTFC</li> <li>- Power offset information</li> <li>- CHOICE Gain Factors</li> <li>- Gain factor <math>\beta_c</math></li> <li>- Gain factor <math>\beta_d</math></li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> </ul> |                                                                                                                                                                                            | Not Present<br>FDD<br>Not Present<br><br>Normal<br><br>Complete reconfiguration<br><br>Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set.<br>This IE is repeated for TFC numbers and reference to clause 6.10.2.4 Parameter Set<br>Reference to clause 6.10.2.4 Parameter Set<br><br>Computed Gain Factors(The last TFC is set to Signalled Gain Factors)<br>11 (below 64 kbps)<br>9 (equal or higher than 64 kbps) when HSDPA is not configured<br>9 (equal or higher than 64 kbps and below 384 kbps) when HSDPA is also configured<br>6 (equal or higher than 384 kbps) when HSDPA is also configured (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)<br>15<br>(Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)<br>0<br>FDD<br>Not Present |                                                              |                                                                                                                                                                                                                                                                                                                                  |
| UL Transport channel information for all transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A12,<br><br>A19                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rel-6<br><br>Rel-7                                           | RBS-2299<br><br>RBS-2300<br>RBS-2301<br>RBS-2302<br>RBS-2303<br>RBS-2304<br>RBS-2305<br>RBS-2306<br>RBS-2307<br>RBS-2308<br><br>RBS-2309<br>RBS-2310                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>- PRACH TFCS</li> <li>- CHOICE mode</li> <li>- TFC subset</li> <li>- UL DCH TFCS</li> <li>- CHOICE TFCI signalling</li> <li>- TFCI Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfigure information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> </ul>                                                                                                                                                                                                                                                                            |                                                                                                                                                                                            | Not Present<br>FDD<br>Not Present<br><br>Normal<br><br>Complete reconfiguration<br><br>ctfc2bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |                                                                                                                                                                                                                                                                                                                                  |

| Information Element                                                                                                                                                                                                                                        | Condition                                                                                                                                                                                     | Value/remark                                                                                                                                                                                                                                                                                                                                   | Version                 | Index                                                                |
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| <ul style="list-style-type: none"> <li>- CTFC</li> <li>- Power offset information</li> <li>- CHOICE Gain Factors</li> <li>- CTFC</li> <li>- Power offset information</li> <li>- CHOICE Gain Factors</li> <li>- Gain factor <math>\beta_c</math></li> </ul> |                                                                                                                                                                                               | 0<br>((UL DCH RAB, DCCH)=(TF0, TF0))                                                                                                                                                                                                                                                                                                           |                         | RBS-2311                                                             |
|                                                                                                                                                                                                                                                            |                                                                                                                                                                                               | Computed Gain Factors<br>1<br>((UL DCH RAB, DCCH)=(TF0, TF1))                                                                                                                                                                                                                                                                                  |                         | RBS-2312<br>RBS-2313<br>RBS-2314                                     |
| <ul style="list-style-type: none"> <li>- Gain factor <math>\beta_d</math></li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset P<sub>p-m</sub></li> </ul>                                                                            |                                                                                                                                                                                               | Signalled Gain Factors<br>11 (below 64 kbps)<br>9 (equal or higher than 64 kbps) when HSDPA is not configured<br>9 (equal or higher than 64 kbps and below 384 kbps) when HSDPA is also configured<br>6 (equal or higher than 384 kbps) when HSDPA is also configured (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) |                         | RBS-2315<br>RBS-2316<br>RBS-2317                                     |
|                                                                                                                                                                                                                                                            |                                                                                                                                                                                               | 15<br>0<br>FDD<br>Not Present                                                                                                                                                                                                                                                                                                                  |                         | RBS-2318<br>RBS-2319<br>RBS-2320<br>RBS-2321                         |
| UL Transport channel information for all transport channels                                                                                                                                                                                                | A13, A14, A15, A16<br><br>, A17b, A17c, A17d, A17e, A19a, A19b, A20, A21, A22, A24<br>, A23, A28a,<br><br>, A25, A25b, A26, A27, A27a, A29, A30<br>, A25c                                     | Not Present                                                                                                                                                                                                                                                                                                                                    | Rel-6                   | RBS-2322                                                             |
|                                                                                                                                                                                                                                                            |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                | Rel-7                   | RBS-2323                                                             |
|                                                                                                                                                                                                                                                            |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                | Rel-7                   | RBS-2324                                                             |
|                                                                                                                                                                                                                                                            |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                | Rel-8                   | RBS-2325                                                             |
|                                                                                                                                                                                                                                                            |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                | Rel-9                   | RBS-2326                                                             |
| Deleted UL TrCH information                                                                                                                                                                                                                                | A1, A2, A3, A4, A5, A6, A7, A8, A11<br>, A9, A10<br>, A12<br>, A17, A17a, A17f, A18, A19, A20, A21, A24<br>, A23,<br><br>, A28, A29<br><br>A35, A37<br>A38, A39, A40, A41, A42, A43, A44, A45 | Not Present                                                                                                                                                                                                                                                                                                                                    | Rel-5                   | RBS-2327                                                             |
|                                                                                                                                                                                                                                                            |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                | Rel-6                   | RBS-2328                                                             |
|                                                                                                                                                                                                                                                            |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                | Rel-7                   | RBS-2329                                                             |
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|                                                                                                                                                                                                                                                            |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                | Rel-8                   | RBS-2331                                                             |
| Deleted UL TrCH information                                                                                                                                                                                                                                | A13, A14, A15, A16<br>A17b, A17c, A17d, A17e, A19a, A19b, A22, A26, A27, A27a, A28a<br>A25, A25b<br>, A25c, A31, A32<br>, A33, A34, A36, A37                                                  | DCH<br>5                                                                                                                                                                                                                                                                                                                                       | Rel-6                   | RBS-2332                                                             |
|                                                                                                                                                                                                                                                            |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                | Rel-7                   | RBS-2333                                                             |
|                                                                                                                                                                                                                                                            |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                | Rel-8                   | RBS-2334                                                             |
|                                                                                                                                                                                                                                                            |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                | Rel-9                   | RBS-2335                                                             |
|                                                                                                                                                                                                                                                            |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                | Rel-10                  | RBS-2336                                                             |
| Deleted UL TrCH information                                                                                                                                                                                                                                | A30                                                                                                                                                                                           | e_dch<br>1                                                                                                                                                                                                                                                                                                                                     | Rel-8                   | RBS-2337                                                             |
| Added or Reconfigured UL TrCH information                                                                                                                                                                                                                  | A1, A3 A4, A5, A6, A7<br>, A9, A10<br>, A17, A17a, A18,<br>, A28                                                                                                                              | 1 DCH added, 1 DCH reconfigured (if from cell_DCH) OR 2 DCHs added (if from cell_FACH)<br><br>DCH<br>1                                                                                                                                                                                                                                         | Rel-5<br>Rel-7<br>Rel-8 | RBS-2338<br>RBS-2339<br>RBS-2340a                                    |
| <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- TFS</li> </ul>                                                                                                                  |                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                |                         | RBS-2341<br>RBS-2342<br>RBS-2343<br>RBS-2344<br>RBS-2345<br>RBS-2346 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Condition | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Version | Index                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| information<br>- CHOICE Transport channel type<br>- Dynamic Transport format<br>- RLC Size<br>- Number of TBs and TTI List<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel list<br>- Semi-static Transport Format<br>information<br>- Transmission time interval<br>- Type of channel coding<br>- Coding Rate<br>- Rate matching attribute<br>- CRC size<br>- Uplink transport channel type<br>- UL Transport channel identity<br>- TFS<br>- CHOICE Transport channel type<br>- Dynamic Transport format<br>information<br>- RLC Size<br>- Number of TBs and TTI List<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel list<br>- Semi-static Transport Format<br>information<br>- Transmission time interval<br>- Type of channel coding<br>- Coding Rate<br>- Rate matching attribute<br>- CRC size |           | Dedicated transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         | RBS-2347<br>RBS-2348                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)<br>Not Present<br>Reference to clause 6.10 Parameter Set All                                                                                                                                                                                                                                                                                                                                                                                        |         | RBS-2349<br>RBS-2350<br>RBS-2351<br>RBS-2352<br>RBS-2353<br>RBS-2354                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                   |         | RBS-2355<br>RBS-2356<br>RBS-2357<br>RBS-2358<br>RBS-2359                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | DCH<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         | RBS-2360<br>RBS-2361<br>RBS-2362                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Dedicated transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         | RBS-2363<br>RBS-2364                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)<br>Not Present<br>Reference to clause 6.10 Parameter Set All                                                                                                                                                                                                                                                                                                                                                                                        |         | RBS-2365<br>RBS-2366<br>RBS-2367<br>RBS-2368<br>RBS-2369<br>RBS-2370                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                   |         | RBS-2371<br>RBS-2372<br>RBS-2373<br>RBS-2374<br>RBS-2375                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Added or Reconfigured UL TrCH information<br>- Uplink transport channel type<br>- UL Transport channel identity<br>- TFS<br>- CHOICE Transport channel type<br>- Dynamic Transport format<br>information<br>- RLC Size<br>- Number of TBs and TTI List<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel list<br>- Semi-static Transport Format<br>information<br>- Transmission time interval<br>- Type of channel coding<br>- Coding Rate<br>- Rate matching attribute<br>- CRC size | A11     | 1 DCH added for DTCH<br><br>DCH<br>4<br><br>Dedicated transport channels<br><br>Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)<br>Not Present<br>Reference to clause 6.10 Parameter Set All<br><br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set |  | RBS-2376<br><br>RBS-2377<br>RBS-2378<br>RBS-2379<br>RBS-2380<br>RBS-2381<br><br>RBS-2382<br>RBS-2383<br>RBS-2384<br>RBS-2385<br>RBS-2386<br>RBS-2387<br><br>RBS-2388<br>RBS-2389<br>RBS-2390<br>RBS-2391<br>RBS-2392 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Added or Reconfigured UL TrCH information<br>- Uplink transport channel type<br>- UL Transport channel identity<br>- TFS<br>- CHOICE Transport channel type<br>- Dynamic Transport format<br>information<br>- RLC Size<br>- Number of TBs and TTI List<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel list<br>- Semi-static Transport Format                                                                                                                                        | A2, A8  | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH)<br>DCH<br>5<br><br>Dedicated transport channels<br><br>Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)<br>Not Present<br>Reference to clause 6.10 Parameter Set All                                                                                                                                                             |  | RBS-2393<br><br>RBS-2394<br>RBS-2395<br>RBS-2396<br>RBS-2397<br>RBS-2398<br><br>RBS-2399<br>RBS-2400<br>RBS-2401<br>RBS-2402<br>RBS-2403<br>RBS-2404                                                                 |

| Information Element             | Condition | Value/remark                                   | Version | Index    |
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| information                     |           |                                                |         |          |
| - Transmission time interval    |           | Reference to clause 6.10 Parameter Set         |         | RBS-2405 |
| - Type of channel coding        |           | Reference to clause 6.10 Parameter Set         |         | RBS-2406 |
| - Coding Rate                   |           | Reference to clause 6.10 Parameter Set         |         | RBS-2407 |
| - Rate matching attribute       |           | Reference to clause 6.10 Parameter Set         |         | RBS-2408 |
| - CRC size                      |           | Reference to clause 6.10 Parameter Set         |         | RBS-2409 |
| - Uplink transport channel type |           | DCH                                            |         | RBS-2410 |
| - UL Transport channel identity |           | 1                                              |         | RBS-2411 |
| - TFS                           |           |                                                |         | RBS-2412 |
| - CHOICE Transport channel type |           | Dedicated transport channels                   |         | RBS-2413 |
| - Dynamic Transport format      |           |                                                |         | RBS-2414 |
| information                     |           |                                                |         |          |
| - RLC Size                      |           | Reference to clause 6.10 Parameter Set         |         | RBS-2415 |
| - Number of TBs and TTI List    |           | (This IE is repeated for TFI number.)          |         | RBS-2416 |
| - Transmission Time Interval    |           | Not Present                                    |         | RBS-2417 |
| - Number of Transport blocks    |           | Reference to clause 6.10 Parameter Set         |         | RBS-2418 |
| - CHOICE Logical channel list   |           | All                                            |         | RBS-2419 |
| - Semi-static Transport Format  |           |                                                |         | RBS-2420 |
| information                     |           |                                                |         |          |
| - Transmission time interval    |           | Reference to clause 6.10 Parameter Set         |         | RBS-2421 |
| - Type of channel coding        |           | Reference to clause 6.10 Parameter Set         |         | RBS-2422 |
| - Coding Rate                   |           | Reference to clause 6.10 Parameter Set         |         | RBS-2423 |
| - Rate matching attribute       |           | Reference to clause 6.10 Parameter Set         |         | RBS-2424 |
| - CRC size                      |           | Reference to clause 6.10 Parameter Set         |         | RBS-2425 |
| - Uplink transport channel type |           | DCH                                            |         | RBS-2426 |
| - UL Transport channel identity |           | 2                                              |         | RBS-2427 |
| - TFS                           |           |                                                |         | RBS-2428 |
| - CHOICE Transport channel type |           | Dedicated transport channels                   |         | RBS-2429 |
| - Dynamic Transport format      |           |                                                |         | RBS-2430 |
| information                     |           |                                                |         |          |
| - RLC Size                      |           | Reference to clause 6.10 Parameter Set         |         | RBS-2431 |
| - Number of TBs and TTI List    |           | (This IE is repeated for TFI number.)          |         | RBS-2432 |
| - Transmission Time Interval    |           | Not Present                                    |         | RBS-2433 |
| - Number of Transport blocks    |           | Reference to clause 6.10 Parameter Set         |         | RBS-2434 |
| - CHOICE Logical channel list   |           | All                                            |         | RBS-2435 |
| - Semi-static Transport Format  |           |                                                |         | RBS-2436 |
| information                     |           |                                                |         |          |
| - Transmission time interval    |           | Reference to clause 6.10 Parameter Set         |         | RBS-2437 |
| - Type of channel coding        |           | Reference to clause 6.10 Parameter Set         |         | RBS-2438 |
| - Coding Rate                   |           | Reference to clause 6.10 Parameter Set         |         | RBS-2439 |
| - Rate matching attribute       |           | Reference to clause 6.10 Parameter Set         |         | RBS-2440 |
| - CRC size                      |           | Reference to clause 6.10 Parameter Set         |         | RBS-2441 |
| - Uplink transport channel type |           | DCH                                            |         | RBS-2442 |
| - UL Transport channel identity |           | 3                                              |         | RBS-2443 |
| - TFS                           |           |                                                |         | RBS-2444 |
| - CHOICE Transport channel type |           | Dedicated transport channels                   |         | RBS-2445 |
| - Dynamic Transport format      |           |                                                |         | RBS-2446 |
| information                     |           |                                                |         |          |
| - RLC Size                      |           | Reference to clause 6.10 Parameter Set         |         | RBS-2447 |
| - Number of TBs and TTI List    |           | (This IE is repeated for TFI number.)          |         | RBS-2448 |
| - Transmission Time Interval    |           | Not Present                                    |         | RBS-2449 |
| - Number of Transport blocks    |           | Reference to clause 6.10 Parameter Set         |         | RBS-2450 |
| - CHOICE Logical channel list   |           | All                                            |         | RBS-2451 |
| - Semi-static Transport Format  |           |                                                |         | RBS-2452 |
| information                     |           |                                                |         |          |
| - Transmission time interval    |           | Reference to clause 6.10 Parameter Set         |         | RBS-2453 |
| - Type of channel coding        |           | Reference to clause 6.10 Parameter Set         |         | RBS-2454 |
| - Coding Rate                   |           | Reference to clause 6.10 Parameter Set         |         | RBS-2455 |
| - Rate matching attribute       |           | Reference to clause 6.10 Parameter Set         |         | RBS-2456 |
| - CRC size                      |           | Reference to clause 6.10 Parameter Set         |         | RBS-2457 |
| Added or Reconfigured UL TrCH   | A12       | 1 E-DCH added, 1 DCH added, 1 DCH reconfigured | Rel-6   | RBS-2458 |
| information                     | A19       |                                                |         |          |
| - Uplink transport channel type |           | E-DCH                                          | Rel-7   | RBS-2459 |
| - CHOICE UL parameters          |           | E-DCH                                          |         | RBS-2460 |
| - UL MAC header type            |           | Not present                                    | Rel-8   | RBS-2461 |
|                                 |           |                                                |         | RBS-2462 |

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| - UL MAC header type                                 | MAC-I-FIXED, MAC-I-FLEX                                                                             | MAC-i/is                                                                                                    | Rel-8    | RBS-2463 |
| - E-DCH Transmission Time Interval                   |                                                                                                     | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI |          | RBS-2464 |
| - HARQ info for E-DCH                                |                                                                                                     | rvtable                                                                                                     |          | RBS-2465 |
| - HARQ RV Configuration                              |                                                                                                     |                                                                                                             |          | RBS-2466 |
| - Added or reconfigured E-DCH MAC-d flow             |                                                                                                     |                                                                                                             |          | RBS-2467 |
| - E-DCH MAC-d flow identity                          |                                                                                                     | 2                                                                                                           |          | RBS-2468 |
| - E-DCH MAC-d flow power offset                      |                                                                                                     | 0                                                                                                           |          | RBS-2469 |
| - E-DCH MAC-d flow maximum number of retransmissions |                                                                                                     | 7                                                                                                           |          | RBS-2470 |
| - E-DCH MAC-d flow multiplexing list                 |                                                                                                     | Not Present                                                                                                 |          | RBS-2471 |
| - CHOICE transmission grant type                     |                                                                                                     | Scheduled grant info                                                                                        |          | RBS-2472 |
| - Uplink transport channel type                      |                                                                                                     | DCH                                                                                                         |          | RBS-2473 |
| - UL Transport channel identity                      |                                                                                                     | 1                                                                                                           |          | RBS-2474 |
| - TFS                                                |                                                                                                     | Dedicated transport channels                                                                                |          | RBS-2475 |
| - CHOICE Transport channel type                      |                                                                                                     |                                                                                                             |          | RBS-2476 |
| - Dynamic Transport format information               |                                                                                                     |                                                                                                             |          | RBS-2477 |
| - RLC Size                                           |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2478 |
| - Number of TBs and TTI List                         |                                                                                                     | (This IE is repeated for TFI number.)                                                                       |          | RBS-2479 |
| - Transmission Time Interval                         |                                                                                                     | Not Present                                                                                                 |          | RBS-2480 |
| - Number of Transport blocks                         |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2481 |
| - CHOICE Logical channel list                        |                                                                                                     | All                                                                                                         |          | RBS-2482 |
| - Semi-static Transport Format information           |                                                                                                     |                                                                                                             |          | RBS-2483 |
| - Transmission time interval                         |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2484 |
| - Type of channel coding                             |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2485 |
| - Coding Rate                                        |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2486 |
| - Rate matching attribute                            |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2487 |
| - CRC size                                           |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2488 |
| - Uplink transport channel type                      |                                                                                                     | DCH                                                                                                         |          | RBS-2489 |
| - UL Transport channel identity                      |                                                                                                     | 5                                                                                                           |          | RBS-2490 |
| - TFS                                                |                                                                                                     | Dedicated transport channels                                                                                |          | RBS-2491 |
| - CHOICE Transport channel type                      |                                                                                                     |                                                                                                             |          | RBS-2492 |
| - Dynamic Transport format information               |                                                                                                     |                                                                                                             |          | RBS-2493 |
| - RLC Size                                           |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2494 |
| - Number of TBs and TTI List                         |                                                                                                     | (This IE is repeated for TFI number.)                                                                       |          | RBS-2495 |
| - Transmission Time Interval                         |                                                                                                     | Not Present                                                                                                 |          | RBS-2496 |
| - Number of Transport blocks                         |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2497 |
| - CHOICE Logical channel list                        |                                                                                                     | All                                                                                                         |          | RBS-2498 |
| - Semi-static Transport Format information           |                                                                                                     |                                                                                                             |          | RBS-2499 |
| - Transmission time interval                         |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2500 |
| - Type of channel coding                             |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2501 |
| - Coding Rate                                        |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2502 |
| - Rate matching attribute                            |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2503 |
| - CRC size                                           |                                                                                                     | Reference to clause 6.10 Parameter Set                                                                      |          | RBS-2504 |
| Added or Reconfigured UL TrCH information            | A13, A14                                                                                            | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow                                              | Rel-6    | RBS-2505 |
|                                                      | , A17b, A17c, A17d, A17e, A19a, A20, A28a, A25, A25b, A27, A27a, A25c, A31, A32, A33, A34, A36, A37 |                                                                                                             | Rel-7    | RBS-2506 |
|                                                      |                                                                                                     |                                                                                                             | Rel-8    | RBS-2507 |
|                                                      |                                                                                                     |                                                                                                             | Rel-9    | RBS-2508 |
|                                                      |                                                                                                     |                                                                                                             | Rel-10   | RBS-2509 |
|                                                      | - Uplink transport channel type                                                                     | E-DCH                                                                                                       |          | RBS-2509 |
|                                                      | - CHOICE UL parameters                                                                              | E-DCH                                                                                                       |          | RBS-2510 |
| - UL MAC header type                                 | Not present                                                                                         | Rel-8                                                                                                       | RBS-2511 |          |

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| - UL MAC header type                                            | MAC-I-FIXED, MAC-I-FLEX  | MAC-i/is                                                                                                    | Rel-8   | RBS-2512                                                        |
| - E-DCH Transmission Time Interval                              |                          | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI |         | RBS-2513                                                        |
| - HARQ info for E-DCH                                           |                          | rvtable<br>(for DCCH)                                                                                       |         | RBS-2514                                                        |
| - HARQ RV Configuration                                         |                          |                                                                                                             |         | RBS-2515                                                        |
| - Added or reconfigured E-DCH MAC-d flow                        |                          |                                                                                                             |         | RBS-2516                                                        |
| - E-DCH MAC-d flow identity                                     |                          | 1                                                                                                           |         | RBS-2517                                                        |
| - E-DCH MAC-d flow power offset                                 |                          | 0                                                                                                           |         | RBS-2518                                                        |
| - E-DCH MAC-d flow maximum number of retransmissions            |                          | 7                                                                                                           |         | RBS-2519                                                        |
| - E-DCH MAC-d flow multiplexing list                            |                          | Not Present                                                                                                 |         | RBS-2520                                                        |
| - CHOICE transmission grant type                                |                          | Non-scheduled grant info                                                                                    |         | RBS-2521                                                        |
| - Max MAC-e PDU contents size                                   | MAC-I-FIXED, MAC-I-FLEX  | 168 bits                                                                                                    | Rel-8   | RBS-2522                                                        |
| - Max MAC-e PDU contents size                                   |                          | 162 bits                                                                                                    |         | RBS-2523                                                        |
| - 2 ms non-scheduled transmission grant HARQ process allocation |                          | Not Present                                                                                                 |         | RBS-2524                                                        |
| - Added or reconfigured E-DCH MAC-d flow                        |                          | (for DTCH)                                                                                                  |         | RBS-2525                                                        |
| - E-DCH MAC-d flow identity                                     |                          | 2                                                                                                           |         | RBS-2526                                                        |
| - E-DCH MAC-d flow power offset                                 |                          | 0                                                                                                           |         | RBS-2527                                                        |
| - E-DCH MAC-d flow maximum number of retransmissions            |                          | 7                                                                                                           |         | RBS-2528                                                        |
| - E-DCH MAC-d flow multiplexing list                            |                          | Not Present                                                                                                 |         | RBS-2529                                                        |
| - CHOICE transmission grant type                                |                          | Scheduled grant info                                                                                        |         | RBS-2530                                                        |
| Added or Reconfigured UL TrCH information                       |                          | A15                                                                                                         |         | 1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows |
| - Uplink transport channel type                                 | MAC-I-FIXED, MAC-I-FLEX  | E-DCH                                                                                                       | Rel-8   | RBS-2532                                                        |
| - CHOICE UL parameters                                          |                          | E-DCH                                                                                                       |         | RBS-2533                                                        |
| - UL MAC header type                                            |                          | Not present                                                                                                 |         | RBS-2534                                                        |
| - UL MAC header type                                            |                          | MAC-i/is                                                                                                    |         | RBS-2535                                                        |
| - E-DCH Transmission Time Interval                              |                          | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI |         | RBS-2536                                                        |
| - HARQ info for E-DCH                                           |                          | rvtable<br>(for DCCH)                                                                                       |         | RBS-2537                                                        |
| - HARQ RV Configuration                                         |                          |                                                                                                             |         | RBS-2538                                                        |
| - Added or reconfigured E-DCH MAC-d flow                        |                          |                                                                                                             |         | RBS-2539                                                        |
| - E-DCH MAC-d flow identity                                     |                          | 1                                                                                                           |         | RBS-2540                                                        |
| - E-DCH MAC-d flow power offset                                 |                          | 0                                                                                                           |         | RBS-2541                                                        |
| - E-DCH MAC-d flow maximum number of retransmissions            | 7                        | RBS-2542                                                                                                    |         |                                                                 |
| - E-DCH MAC-d flow multiplexing list                            | Not Present              | RBS-2543                                                                                                    |         |                                                                 |
| - CHOICE transmission grant type                                | Non-scheduled grant info | RBS-2544                                                                                                    |         |                                                                 |
| - Max MAC-e PDU contents size                                   | MAC-I-FIXED, MAC-I-FLEX  | 162 bits                                                                                                    | Rel-8   | RBS-2545                                                        |
| - Max MAC-e PDU contents size                                   |                          | 168 bits                                                                                                    |         | RBS-2546                                                        |

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| - 2 ms non-scheduled transmission grant HARQ process allocation |                         | Not Present                                                                                                 |         | RBS-2547 |
| - Added or reconfigured E-DCH MAC-d flow                        |                         | (for first DTCH)                                                                                            |         | RBS-2548 |
| - E-DCH MAC-d flow identity                                     |                         | 2                                                                                                           |         | RBS-2549 |
| - E-DCH MAC-d flow power                                        |                         | 0                                                                                                           |         | RBS-2550 |
| offset                                                          |                         |                                                                                                             |         |          |
| - E-DCH MAC-d flow maximum number of retransmissions            |                         | 7                                                                                                           |         | RBS-2551 |
| - E-DCH MAC-d flow                                              |                         | Not Present                                                                                                 |         | RBS-2552 |
| multiplexing list                                               |                         |                                                                                                             |         |          |
| - CHOICE transmission grant type                                |                         | Scheduled grant info                                                                                        |         | RBS-2553 |
| - Added or reconfigured E-DCH MAC-d flow                        |                         | (for second DTCH)                                                                                           |         | RBS-2554 |
| - E-DCH MAC-d flow identity                                     |                         | 3                                                                                                           |         | RBS-2555 |
| - E-DCH MAC-d flow power                                        |                         | 0                                                                                                           |         | RBS-2556 |
| offset                                                          |                         |                                                                                                             |         |          |
| - E-DCH MAC-d flow maximum number of retransmissions            |                         | 7                                                                                                           |         | RBS-2557 |
| - E-DCH MAC-d flow                                              |                         | Not Present                                                                                                 |         | RBS-2558 |
| multiplexing list                                               |                         |                                                                                                             |         |          |
| - CHOICE transmission grant type                                |                         | Scheduled grant info                                                                                        |         | RBS-2559 |
| Added or Reconfigured UL TrCH information                       | A16                     | 1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows                                             | Rel-6   | RBS-2560 |
|                                                                 | , A19b, A21, A22        |                                                                                                             | Rel-7   | RBS-2561 |
| - Uplink transport channel type                                 |                         | E-DCH                                                                                                       |         | RBS-2562 |
| - CHOICE UL parameters                                          |                         | E-DCH                                                                                                       |         | RBS-2563 |
| - UL MAC header type                                            |                         | Not present                                                                                                 | Rel-8   | RBS-2564 |
| - UL MAC header type                                            |                         | MAC-i/is                                                                                                    | Rel-8   | RBS-2565 |
| - CHOICE mode                                                   | MAC-I-FIXED, MAC-I-FLEX | FDD                                                                                                         | Rel-7   | RBS-2566 |
| - E-DCH Transmission Time Interval                              |                         | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI |         | RBS-2567 |
| - HARQ info for E-DCH                                           |                         |                                                                                                             |         | RBS-2568 |
| - HARQ RV Configuration                                         |                         | rvtable                                                                                                     |         | RBS-2569 |
| - Added or reconfigured E-DCH MAC-d flow                        |                         | (for DCCH)                                                                                                  |         | RBS-2570 |
| - E-DCH MAC-d flow identity                                     |                         | 1                                                                                                           |         | RBS-2571 |
| - E-DCH MAC-d flow power                                        |                         | 0                                                                                                           |         | RBS-2572 |
| offset                                                          |                         |                                                                                                             |         |          |
| - E-DCH MAC-d flow maximum number of retransmissions            |                         | 7                                                                                                           |         | RBS-2573 |
| - E-DCH MAC-d flow                                              |                         | Not Present                                                                                                 |         | RBS-2574 |
| multiplexing list                                               |                         |                                                                                                             |         |          |
| - CHOICE transmission grant type                                |                         | Non-scheduled grant info                                                                                    |         | RBS-2575 |
| - Max MAC-e PDU contents size                                   |                         | 162 bits                                                                                                    |         | RBS-2576 |
| - Max MAC-e PDU contents size                                   | MAC-I-FIXED, MAC-I-FLEX | 168 bits                                                                                                    | Rel-8   | RBS-2577 |
| - 2 ms non-scheduled transmission grant HARQ process allocation |                         | Not Present                                                                                                 |         | RBS-2578 |
| - Added or reconfigured E-DCH MAC-d flow                        |                         | (for first DTCH)                                                                                            |         | RBS-2579 |
| - E-DCH MAC-d flow identity                                     |                         | 2                                                                                                           |         | RBS-2580 |
| - E-DCH MAC-d flow power                                        |                         | 0                                                                                                           |         | RBS-2581 |
| offset                                                          |                         |                                                                                                             |         |          |
| - E-DCH MAC-d flow maximum number of retransmissions            |                         | 7                                                                                                           |         | RBS-2582 |
| - E-DCH MAC-d flow                                              |                         | Not Present                                                                                                 |         | RBS-2583 |
| multiplexing list                                               |                         |                                                                                                             |         |          |

| Information Element                                             | Condition | Value/remark                                                                                                | Version        | Index    |
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| - CHOICE transmission grant type                                |           | Scheduled grant info                                                                                        |                | RBS-2584 |
| - Added or reconfigured E-DCH MAC-d flow                        |           | (for second DTCH)                                                                                           |                | RBS-2585 |
| - E-DCH MAC-d flow identity                                     |           | 4                                                                                                           |                | RBS-2586 |
| - E-DCH MAC-d flow power                                        |           | 0                                                                                                           |                | RBS-2587 |
| offset                                                          |           |                                                                                                             |                |          |
| - E-DCH MAC-d flow maximum number of retransmissions            |           | 7                                                                                                           |                | RBS-2588 |
| - E-DCH MAC-d flow multiplexing list                            |           | Not Present                                                                                                 |                | RBS-2589 |
| - CHOICE transmission grant type                                |           | Scheduled grant info                                                                                        |                | RBS-2590 |
| Added or Reconfigured UL TrCH information                       | A23       | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow                                              | Rel-7<br>Rel-8 | RBS-2591 |
| - Uplink transport channel type                                 |           | E-DCH                                                                                                       |                | RBS-2592 |
| - CHOICE UL parameters                                          |           | E-DCH                                                                                                       |                | RBS-2593 |
| - UL MAC header type                                            |           | Not present                                                                                                 | Rel-8          | RBS-2594 |
| - UL MAC header type                                            |           | MAC-i/is                                                                                                    | Rel-8          | RBS-2595 |
| - E-DCH Transmission Time Interval                              |           | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI |                | RBS-2596 |
| - HARQ info for E-DCH                                           |           |                                                                                                             |                | RBS-2597 |
| - HARQ RV Configuration                                         |           | rvtable                                                                                                     |                | RBS-2598 |
| - Added or reconfigured E-DCH MAC-d flow                        |           | (for DCCH)                                                                                                  |                | RBS-2599 |
| - E-DCH MAC-d flow identity                                     |           | 1                                                                                                           |                | RBS-2600 |
| - E-DCH MAC-d flow power                                        |           | 0                                                                                                           |                | RBS-2601 |
| offset                                                          |           |                                                                                                             |                |          |
| - E-DCH MAC-d flow maximum number of retransmissions            |           | 7                                                                                                           |                | RBS-2602 |
| - E-DCH MAC-d flow multiplexing list                            |           | Not Present                                                                                                 |                | RBS-2603 |
| - CHOICE transmission grant type                                |           | Non-scheduled grant info                                                                                    |                | RBS-2604 |
| - Max MAC-e PDU contents size                                   |           | 162 bits                                                                                                    | Rel-6          | RBS-2605 |
| - Max MAC-e PDU contents size                                   |           | 168 bits                                                                                                    | Rel-8          | RBS-2606 |
| - 2 ms non-scheduled transmission grant HARQ process allocation |           | '01000000'B if 2ms TTI configured otherwise Not Present                                                     |                | RBS-2607 |
| - Added or reconfigured E-DCH MAC-d flow                        |           | (for DTCH)                                                                                                  |                | RBS-2608 |
| - E-DCH MAC-d flow identity                                     |           | 2                                                                                                           |                | RBS-2609 |
| - E-DCH MAC-d flow power                                        |           | 0                                                                                                           |                | RBS-2610 |
| offset                                                          |           |                                                                                                             |                |          |
| - E-DCH MAC-d flow maximum number of retransmissions            |           | 3 if 2ms TTI configured, otherwise 1                                                                        |                | RBS-2611 |
| - E-DCH MAC-d flow multiplexing list                            |           | Not Present                                                                                                 |                | RBS-2612 |
| - CHOICE transmission grant type                                |           | Non-scheduled grant info                                                                                    |                | RBS-2613 |
| - Max MAC-e PDU contents size                                   |           | 546 bits                                                                                                    | Rel-6          | RBS-2614 |
| - Max MAC-e PDU contents size                                   |           | 552 bits                                                                                                    | Rel-8          | RBS-2615 |
| Added or Reconfigured UL TrCH information                       | A26       | 1 E-DCH added with one DCCH MAC-d flow and three DTCH MAC-d flows                                           | Rel-8          | RBS-2616 |
| - Uplink transport channel type                                 |           | E-DCH                                                                                                       |                | RBS-2617 |
| - CHOICE UL parameters                                          |           | E-DCH                                                                                                       |                | RBS-2618 |
| - UL MAC header type                                            |           | Not present                                                                                                 |                | RBS-2619 |
| - UL MAC header type                                            |           | MAC-i/is                                                                                                    |                | RBS-2620 |
| - CHOICE mode                                                   |           | FDD                                                                                                         | Rel-7          | RBS-2621 |



| Information Element                                             | Condition               | Value/remark                                                                                                | Version | Index    |
|-----------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------|---------|----------|
| - E-DCH Transmission Time Interval                              |                         | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI |         | RBS-2622 |
| - HARQ info for E-DCH                                           |                         |                                                                                                             |         | RBS-2623 |
| - HARQ RV Configuration                                         |                         | rvtable                                                                                                     |         | RBS-2624 |
| - Added or reconfigured E-DCH MAC-d flow                        |                         | (for DCCH)                                                                                                  |         | RBS-2625 |
| - E-DCH MAC-d flow identity                                     |                         | 1                                                                                                           |         | RBS-2626 |
| - E-DCH MAC-d flow power                                        |                         | 0                                                                                                           |         | RBS-2627 |
| offset                                                          |                         |                                                                                                             |         |          |
| - E-DCH MAC-d flow maximum number of retransmissions            |                         | 7                                                                                                           |         | RBS-2628 |
| - E-DCH MAC-d flow multiplexing list                            |                         | Not Present                                                                                                 |         | RBS-2629 |
| - CHOICE transmission grant type                                |                         | Non-scheduled grant info                                                                                    |         | RBS-2630 |
| - Max MAC-e PDU contents size                                   |                         | 168 bits                                                                                                    |         | RBS-2631 |
| - 2 ms non-scheduled transmission grant HARQ process allocation |                         | Not Present                                                                                                 |         | RBS-2632 |
| - Added or reconfigured E-DCH MAC-d flow                        |                         | (for first DTCH)                                                                                            |         | RBS-2633 |
| - E-DCH MAC-d flow identity                                     |                         | 2                                                                                                           |         | RBS-2634 |
| - E-DCH MAC-d flow power                                        |                         | 0                                                                                                           |         | RBS-2635 |
| offset                                                          |                         |                                                                                                             |         |          |
| - E-DCH MAC-d flow maximum number of retransmissions            |                         | 7                                                                                                           |         | RBS-2636 |
| - E-DCH MAC-d flow multiplexing list                            |                         | Not Present                                                                                                 |         | RBS-2637 |
| - CHOICE transmission grant type                                |                         | Scheduled grant info                                                                                        |         | RBS-2638 |
| - Added or reconfigured E-DCH MAC-d flow                        |                         | (for second DTCH)                                                                                           |         | RBS-2639 |
| - E-DCH MAC-d flow identity                                     |                         | 3                                                                                                           |         | RBS-2640 |
| - E-DCH MAC-d flow power                                        |                         | 0                                                                                                           |         | RBS-2641 |
| offset                                                          |                         |                                                                                                             |         |          |
| - E-DCH MAC-d flow maximum number of retransmissions            |                         | 7                                                                                                           |         | RBS-2642 |
| - E-DCH MAC-d flow multiplexing list                            |                         | Not Present                                                                                                 |         | RBS-2643 |
| - CHOICE transmission grant type                                |                         | Scheduled grant info                                                                                        |         | RBS-2644 |
| - Added or reconfigured E-DCH MAC-d flow                        |                         | (for third DTCH)                                                                                            |         | RBS-2645 |
| - E-DCH MAC-d flow identity                                     |                         | 4                                                                                                           |         | RBS-2646 |
| - E-DCH MAC-d flow power                                        |                         | 0                                                                                                           |         | RBS-2647 |
| offset                                                          |                         |                                                                                                             |         |          |
| - E-DCH MAC-d flow maximum number of retransmissions            |                         | 7                                                                                                           |         | RBS-2648 |
| - E-DCH MAC-d flow multiplexing list                            |                         | Not Present                                                                                                 |         | RBS-2649 |
| - CHOICE transmission grant type                                |                         | Scheduled grant info                                                                                        |         | RBS-2650 |
| Added or Reconfigured UL TrCH information                       | A29                     | 1 E-DCH added with one DTCH MAC-d flow                                                                      | Rel-8   | RBS-2651 |
| - Uplink transport channel type                                 |                         | E-DCH                                                                                                       |         | RBS-2652 |
| - CHOICE UL parameters                                          |                         | E-DCH                                                                                                       |         | RBS-2653 |
| - UL MAC header type                                            | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is                                                                                                    | Rel-8   | RBS-2654 |
| - E-DCH Transmission Time Interval                              |                         | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI |         | RBS-2655 |
| - HARQ info for E-DCH                                           |                         |                                                                                                             |         | RBS-2656 |

[illegible]

| Information Element                                               | Condition                                                                                                                                                                             | Value/remark                                                                                                                                                                  | Version                 | Index                                        |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------|
| - E-DCH MAC-d flow power offset                                   |                                                                                                                                                                                       | 0                                                                                                                                                                             |                         | RBS-2694                                     |
| - E-DCH MAC-d flow maximum number of retransmissions              |                                                                                                                                                                                       | 7                                                                                                                                                                             |                         | RBS-2695                                     |
| - E-DCH MAC-d flow multiplexing list                              |                                                                                                                                                                                       | Not Present                                                                                                                                                                   |                         | RBS-2696                                     |
| - CHOICE transmission grant type                                  |                                                                                                                                                                                       | Scheduled grant info                                                                                                                                                          |                         | RBS-2697                                     |
| - Uplink transport channel type                                   |                                                                                                                                                                                       | DCH                                                                                                                                                                           |                         | RBS-2698                                     |
| - UL Transport channel identity                                   |                                                                                                                                                                                       | 5                                                                                                                                                                             |                         | RBS-2699                                     |
| - TFS                                                             |                                                                                                                                                                                       |                                                                                                                                                                               |                         | RBS-2700                                     |
| - CHOICE Transport channel type                                   |                                                                                                                                                                                       | Dedicated transport channels                                                                                                                                                  |                         | RBS-2701                                     |
| - Dynamic Transport format information                            |                                                                                                                                                                                       |                                                                                                                                                                               |                         | RBS-2702                                     |
| - RLC Size                                                        |                                                                                                                                                                                       | Reference to clause 6.10 Parameter Set                                                                                                                                        |                         | RBS-2703                                     |
| - Number of TBs and TTI List                                      |                                                                                                                                                                                       | (This IE is repeated for TFI number.)                                                                                                                                         |                         | RBS-2704                                     |
| - Transmission Time Interval                                      |                                                                                                                                                                                       | Not Present                                                                                                                                                                   |                         | RBS-2705                                     |
| - Number of Transport blocks                                      |                                                                                                                                                                                       | Reference to clause 6.10 Parameter Set                                                                                                                                        |                         | RBS-2706                                     |
| - CHOICE Logical channel list                                     |                                                                                                                                                                                       | All                                                                                                                                                                           |                         | RBS-2707                                     |
| - Semi-static Transport Format information                        |                                                                                                                                                                                       |                                                                                                                                                                               |                         | RBS-2708                                     |
| - Transmission time interval                                      |                                                                                                                                                                                       | Reference to clause 6.10 Parameter Set                                                                                                                                        |                         | RBS-2709                                     |
| - Type of channel coding                                          |                                                                                                                                                                                       | Reference to clause 6.10 Parameter Set                                                                                                                                        |                         | RBS-2710                                     |
| - Coding Rate                                                     |                                                                                                                                                                                       | Reference to clause 6.10 Parameter Set                                                                                                                                        |                         | RBS-2711                                     |
| - Rate matching attribute                                         |                                                                                                                                                                                       | Reference to clause 6.10 Parameter Set                                                                                                                                        |                         | RBS-2712                                     |
| - CRC size                                                        |                                                                                                                                                                                       | Reference to clause 6.10 Parameter Set                                                                                                                                        |                         | RBS-2713                                     |
| DL Transport channel information common for all transport channel | A1, A2, A7, A8                                                                                                                                                                        |                                                                                                                                                                               |                         | RBS-2714                                     |
| - SCCPCH TFCS                                                     |                                                                                                                                                                                       | Not Present                                                                                                                                                                   |                         | RBS-2715                                     |
| - CHOICE mode                                                     |                                                                                                                                                                                       | FDD                                                                                                                                                                           |                         | RBS-2716                                     |
| - CHOICE DL parameters                                            |                                                                                                                                                                                       | SameasUL                                                                                                                                                                      |                         | RBS-2717                                     |
| DL Transport channel information common for all transport channel | A3, A4, A5, A6, A11, A10, A12, A13, A15, A17, A18, A17a, A17d, A17e, A17f, A19, A19a, A25a, A25b, A26, A28, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 |                                                                                                                                                                               | Rel-5<br>Rel-6<br>Rel-7 | RBS-2718<br>RBS-2719<br>RBS-2720<br>RBS-2721 |
|                                                                   |                                                                                                                                                                                       |                                                                                                                                                                               | Rel-8                   | RBS-2722                                     |
|                                                                   |                                                                                                                                                                                       |                                                                                                                                                                               | Rel-9<br>Rel-10         | RBS-2723                                     |
|                                                                   |                                                                                                                                                                                       |                                                                                                                                                                               | Rel-11                  |                                              |
| - SCCPCH TFCS                                                     |                                                                                                                                                                                       | Not Present                                                                                                                                                                   |                         | RBS-2724                                     |
| - CHOICE mode                                                     |                                                                                                                                                                                       | FDD                                                                                                                                                                           |                         | RBS-2725                                     |
| - CHOICE DL parameters                                            |                                                                                                                                                                                       | Explicit                                                                                                                                                                      |                         | RBS-2726                                     |
| - DL DCH TFCS                                                     |                                                                                                                                                                                       |                                                                                                                                                                               |                         | RBS-2727                                     |
| - CHOICE TFCI Signalling                                          |                                                                                                                                                                                       | Normal                                                                                                                                                                        |                         | RBS-2728                                     |
| - TFCI Field 1 Information                                        |                                                                                                                                                                                       |                                                                                                                                                                               |                         | RBS-2729                                     |
| - CHOICE TFCS representation                                      |                                                                                                                                                                                       | Complete reconfiguration                                                                                                                                                      |                         | RBS-2730                                     |
| - TFCS complete reconfigure                                       |                                                                                                                                                                                       |                                                                                                                                                                               |                         | RBS-2731                                     |
| - CHOICE CTFC Size                                                |                                                                                                                                                                                       |                                                                                                                                                                               |                         | RBS-2732                                     |
| - CTFC information                                                |                                                                                                                                                                                       | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to clause 6.10.2.4 |                         | RBS-2733                                     |
| - CTFC                                                            |                                                                                                                                                                                       | Reference to clause 6.10.2.4 Parameter Set                                                                                                                                    |                         | RBS-2734                                     |
| - Power offset information                                        |                                                                                                                                                                                       | Not Present                                                                                                                                                                   |                         | RBS-2735                                     |
| DL Transport channel information common for all transport channel | A9                                                                                                                                                                                    |                                                                                                                                                                               | Rel-5                   | RBS-2736                                     |
| - SCCPCH TFCS                                                     |                                                                                                                                                                                       | Not Present                                                                                                                                                                   |                         | RBS-2737                                     |
| - CHOICE mode                                                     |                                                                                                                                                                                       | FDD                                                                                                                                                                           |                         | RBS-2738                                     |
| - CHOICE DL parameters                                            |                                                                                                                                                                                       | Explicit                                                                                                                                                                      |                         | RBS-2739                                     |
| - DL DCH TFCS                                                     |                                                                                                                                                                                       |                                                                                                                                                                               |                         | RBS-2740                                     |
| - CHOICE TFCI Signalling                                          |                                                                                                                                                                                       | Normal                                                                                                                                                                        |                         | RBS-2741                                     |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Condition                                                                                                                                                                                                       | Value/remark                                                                                                                                               | Version                                                                   | Index                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- TFCI Field 1 Information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfigure</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- CTFC</li> <li>- Power offset information</li> <li>- CTFC</li> <li>- Power offset information</li> </ul>                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                 | Complete reconfiguration<br><br>ctfc2bit<br><br>0<br>((DL DCH RAB, DCCH)=(TF0, TF0))<br>Not Present<br>1<br>((DL DCH RAB, DCCH)=(TF0, TF1))<br>Not Present |                                                                           | RBS-2742<br>RBS-2743<br>RBS-2744<br>RBS-2745<br>RBS-2746<br>RBS-2747<br><br>RBS-2748<br>RBS-2749<br><br>RBS-2750                                                                     |
| DL Transport channel information common for all transport channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A14, A16<br><br>, A17b, A17c, A19b, A20, A21, A22, A24 , A23, A28a<br><br>, A25, A27, A27a, A29, A30, A25c                                                                                                      | Not Present                                                                                                                                                | Rel-6<br><br>Rel-7<br><br>Rel-7<br>Rel-8<br>Rel-8<br><br>Rel-9            | RBS-2751<br><br>RBS-2752<br><br>RBS-2753<br><br>RBS-2754                                                                                                                             |
| Deleted DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1, A2, A3, A4, A5, A6, A7, A8<br>, A9, A10<br>, A12, A13<br>, A17, A18, A17a, A17d, A17e, A17f, A19, A19a, A20, A21, A24<br>, A25a, A25b, A26, A28, A29<br><br>, A35<br>A38, A39, A40, A41, A42, A43, A44, A45 | Not Present                                                                                                                                                | Rel-5<br>Rel-6<br>Rel-7<br><br><br>Rel-8<br><br>Rel-9<br>Rel-10<br>Rel-11 | RBS-2755<br><br>RBS-2756<br>RBS-2757<br>RBS-2758<br><br>RBS-2759<br><br>RBS-2760                                                                                                     |
| Deleted DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A14, A16<br>A17b, A17c, A19b, A22<br>A25, A27, A27a, A25c, A28a<br><br>, A31, A32<br>, A33, A34, A36, A37                                                                                                       | DCH<br>10                                                                                                                                                  | Rel-6<br>Rel-7<br><br><br>Rel-9<br>Rel-10                                 | RBS-2761<br>RBS-2762<br><br>RBS-2763<br><br>RBS-2764<br>RBS-2765<br>RBS-2766<br>RBS-2767                                                                                             |
| Deleted DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A30                                                                                                                                                                                                             | mac_ehs<br>1                                                                                                                                               | Rel-8                                                                     | RBS-2767a                                                                                                                                                                            |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul> | A1                                                                                                                                                                                                              | 1 DCH added, 1 DCH reconfigured<br><br>DCH<br>6<br>Same as UL<br>DCH<br>1<br><br>-20 (-2.0)<br>DCH<br>10<br>Same as UL<br>DCH<br>5<br><br>-20 (-2.0)       |                                                                           | RBS-2768<br><br>RBS-2769<br>RBS-2770<br>RBS-2771<br>RBS-2772<br>RBS-2773<br>RBS-2774<br>RBS-2775<br>RBS-2776<br>RBS-2777<br>RBS-2778<br>RBS-2779<br>RBS-2780<br>RBS-2781<br>RBS-2782 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                       | A3, A4, A5, A6, A7                                                                                                                                                                                              | 2 TrCHs(DCH for DCCH and DCH for DTCH)<br>DCH<br>10                                                                                                        |                                                                           | RBS-2783<br><br>RBS-2784<br>RBS-2785                                                                                                                                                 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Condition | Value/remark                                                 | Version | Index    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- CHOICE DL parameters</li> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> </ul>                                                                                                                                                                                 |           | Same as UL                                                   |         | RBS-2786 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | DCH                                                          |         | RBS-2787 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | 5                                                            |         | RBS-2788 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                              |         | RBS-2789 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | -20 (-2.0)                                                   |         | RBS-2790 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | DCH                                                          |         | RBS-2791 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | 6                                                            |         | RBS-2792 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Explicit                                                     |         | RBS-2793 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Except for RAB with the symmetric DL and UL rate: Same as UL |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                              |         | RBS-2794 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Dedicated transport channel                                  |         | RBS-2795 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                              |         | RBS-2796 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to clause 6.10 Parameter Set                       |         | RBS-2797 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | (This IE is repeated for TFI number.)                        |         | RBS-2798 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Not Present                                                  |         | RBS-2799 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to clause 6.10 Parameter Set only including TF0    |         | RBS-2800 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | All                                                          |         | RBS-2801 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                              |         | RBS-2802 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to clause 6.10 Parameter Set                       |         | RBS-2803 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to clause 6.10 Parameter Set                       |         | RBS-2804 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to clause 6.10 Parameter Set                       |         | RBS-2805 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to clause 6.10 Parameter Set                       |         | RBS-2806 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to clause 6.10 Parameter Set                       |         | RBS-2807 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                              |         | RBS-2808 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | -20 (-2.0)                                                   |         | RBS-2809 |
| Added or Reconfigured DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A2, A8    | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH)                     |         | RBS-2810 |
| <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format</li> </ul> |           | DCH                                                          |         | RBS-2811 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | 10                                                           |         | RBS-2812 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Same as UL                                                   |         | RBS-2813 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | DCH                                                          |         | RBS-2814 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | 5                                                            |         | RBS-2815 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                              |         | RBS-2816 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | -20 (-2.0)                                                   |         | RBS-2817 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | DCH                                                          |         | RBS-2818 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | 6                                                            |         | RBS-2819 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Explicit                                                     |         | RBS-2820 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to clause 6.10 Parameter Set                       |         | RBS-2824 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | (This IE is repeated for TFI number.)                        |         | RBS-2825 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                              |         | RBS-2826 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Not Present                                                  |         | RBS-2827 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to clause 6.10 Parameter Set                       |         | RBS-2828 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | All                                                          |         | RBS-2829 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                              |         | RBS-2830 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to clause 6.10 Parameter Set                       |         | RBS-2831 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to clause 6.10 Parameter Set                       |         | RBS-2834 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to clause 6.10 Parameter Set                       |         | RBS-2835 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                              |         | RBS-2836 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Not Present                                                  |         | RBS-2837 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | DCH                                                          |         | RBS-2838 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | 7                                                            |         | RBS-2839 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                              |         | RBS-2841 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | Dedicated transport channel                                  |         | RBS-2842 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                              |         | RBS-2843 |

| Information Element               | Condition | Value/remark                                                                    | Version | Index                            |
|-----------------------------------|-----------|---------------------------------------------------------------------------------|---------|----------------------------------|
| information                       |           | Reference to clause 6.10 Parameter Set<br>(This IE is repeated for TFI number.) |         | RBS-2844<br>RBS-2845<br>RBS-2846 |
| information                       |           | Not Present                                                                     |         | RBS-2847                         |
| - Transmission Time Interval      |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2848                         |
| - Number of Transport blocks      |           | All                                                                             |         | RBS-2849                         |
| - CHOICE Logical channel list     |           |                                                                                 |         | RBS-2850                         |
| - Semi-static Transport Format    |           |                                                                                 |         |                                  |
| information                       |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2851                         |
| - Transmission time interval      |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2852                         |
| - Type of channel coding          |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2853                         |
| - Coding Rate                     |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2854                         |
| - Rate matching attribute         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2855                         |
| - CRC size                        |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2856                         |
| - DCH quality target              |           | Not Present                                                                     |         | RBS-2857                         |
| - BLER Quality value              |           | DCH                                                                             |         | RBS-2858                         |
| - Downlink transport channel type |           | 8                                                                               |         | RBS-2859                         |
| - DL Transport channel identity   |           | Explicit                                                                        |         | RBS-2860                         |
| - CHOICE DL parameters            |           |                                                                                 |         | RBS-2861                         |
| - TFS                             |           | Dedicated transport channel                                                     |         | RBS-2862                         |
| - CHOICE Transport channel type   |           |                                                                                 |         | RBS-2863                         |
| - Dynamic transport format        |           |                                                                                 |         |                                  |
| information                       |           | Reference to clause 6.10 Parameter Set<br>(This IE is repeated for TFI number.) |         | RBS-2864<br>RBS-2865<br>RBS-2866 |
| information                       |           | Not Present                                                                     |         | RBS-2867                         |
| - Transmission Time Interval      |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2868                         |
| - Number of Transport blocks      |           | All                                                                             |         | RBS-2869                         |
| - CHOICE Logical channel list     |           |                                                                                 |         | RBS-2870                         |
| - Semi-static Transport Format    |           |                                                                                 |         |                                  |
| information                       |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2871                         |
| - Transmission time interval      |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2872                         |
| - Type of channel coding          |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2873                         |
| - Coding Rate                     |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2874                         |
| - Rate matching attribute         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2875                         |
| - CRC size                        |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2876                         |
| - DCH quality target              |           | Not Present                                                                     |         | RBS-2877                         |
| - BLER Quality value              |           |                                                                                 |         |                                  |
| Added or Reconfigured DL TrCH     | A9        | 3 TrCHs (DCH for DCCH and DCH plus                                              | Rel-5   | RBS-2878                         |
| information                       | A12       | HS-DSCH for DTCH)                                                               | Rel-6   | RBS-2879                         |
|                                   | A19       |                                                                                 | Rel-7   | RBS-2880                         |
| - Downlink transport channel type |           | DCH                                                                             |         | RBS-2881                         |
| - DL Transport channel identity   |           | 10                                                                              |         | RBS-2882                         |
| - CHOICE DL parameters            |           | Same as UL                                                                      |         | RBS-2883                         |
| - Uplink transport channel type   |           | DCH                                                                             |         | RBS-2884                         |
| - UL TrCH identity                |           | 5                                                                               |         | RBS-2885                         |
| - DCH quality target              |           |                                                                                 |         | RBS-2886                         |
| - BLER Quality value              |           | -20 (-2.0)                                                                      |         | RBS-2887                         |
| - Downlink transport channel type |           | DCH                                                                             |         | RBS-2888                         |
| - DL Transport channel identity   |           | 6                                                                               |         | RBS-2889                         |
| - CHOICE DL parameters            |           | Explicit                                                                        |         | RBS-2890                         |
| - TFS                             |           |                                                                                 |         | RBS-2891                         |
| - CHOICE Transport channel type   |           | Dedicated transport channel                                                     |         | RBS-2892                         |
| - Dynamic transport format        |           |                                                                                 |         | RBS-2893                         |
| information                       |           | Reference to clause 6.10 Parameter Set<br>(This IE is repeated for TFI number.) |         | RBS-2894<br>RBS-2895<br>RBS-2896 |
| information                       |           | Not Present                                                                     |         | RBS-2897                         |
| - Transmission Time Interval      |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2898                         |
| - Number of Transport blocks      |           | All                                                                             |         | RBS-2899                         |
| - CHOICE Logical channel list     |           |                                                                                 |         | RBS-2900                         |
| - Semi-static Transport Format    |           |                                                                                 |         |                                  |
| information                       |           | Reference to clause 6.10 Parameter Set                                          |         | RBS-2901                         |
| - Transmission time interval      |           |                                                                                 |         |                                  |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition | Value/remark                                                                                                                                                                                                                                                                           | Version | Index                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters               <ul style="list-style-type: none"> <li>- HARQ Info</li> <li>- Number of Processes</li> </ul> </li> <li>- CHOICE <i>Memory</i></li> </ul>                                                                                                                                                                                                                                    |           | Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>-20 (-2.0)<br>HS-DSCH<br>Not Present<br>HS-DSCH<br>Reference to clause 6.10.2.4.5<br>Parameter Set<br>Implicit |         | RBS-2902<br>RBS-2903<br>RBS-2904<br>RBS-2905<br>RBS-2906<br>RBS-2907<br>RBS-2908<br>RBS-2909<br>RBS-2910<br>RBS-2911<br>RBS-2912<br>RBS-2913                         |
| <i>Partitioning</i><br><ul style="list-style-type: none"> <li>- Added or reconfigured MAC-d flow</li> <li>- MAC-hs queue to add or reconfigure list               <ul style="list-style-type: none"> <li>- MAC-hs queue Id</li> <li>- MAC-d Flow Identity</li> <li>- T1</li> <li>- MAC-hs window size</li> <li>- MAC-d PDU size Info                   <ul style="list-style-type: none"> <li>- MAC-d PDU size</li> <li>- MAC-d PDU size index</li> </ul> </li> <li>- MAC-hs queue to delete list</li> </ul> </li> <li>- DCH quality target</li> </ul>                                                                                                                                                                  |           | (one queue)<br>0<br>0<br>50<br>16<br>336<br>0<br>Not present<br>Not present                                                                                                                                                                                                            |         | RBS-2914<br>RBS-2915<br>RBS-2916<br>RBS-2917<br>RBS-2918<br>RBS-2919<br>RBS-2920<br>RBS-2921<br>RBS-2922<br>RBS-2923<br>RBS-2924                                     |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters               <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> </ul> </li> <li>- DCH quality target               <ul style="list-style-type: none"> <li>- BLER Quality value</li> </ul> </li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters               <ul style="list-style-type: none"> <li>- HARQ Info</li> <li>- Number of Processes</li> </ul> </li> <li>- CHOICE <i>Memory</i></li> </ul> | A10       | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH)<br>DCH<br>10<br>Same as UL<br>DCH<br>5<br>-20 (-2.0)<br>HS-DSCH<br>Not Present<br>HS-DSCH<br>Reference to clause 6.10.2.4.5<br>Parameter Set<br>Implicit                                                                                   | Rel-5   | RBS-2925<br>RBS-2926<br>RBS-2927<br>RBS-2928<br>RBS-2929<br>RBS-2930<br>RBS-2931<br>RBS-2932<br>RBS-2933<br>RBS-2934<br>RBS-2935<br>RBS-2936<br>RBS-2937<br>RBS-2938 |
| <i>Partitioning</i><br><ul style="list-style-type: none"> <li>- Added or reconfigured MAC-d flow</li> <li>- MAC-hs queue to add or reconfigure list               <ul style="list-style-type: none"> <li>- MAC-hs queue Id</li> <li>- MAC-d Flow Identity</li> <li>- T1</li> <li>- MAC-hs window size</li> <li>- MAC-d PDU size Info                   <ul style="list-style-type: none"> <li>- MAC-d PDU size</li> <li>- MAC-d PDU size index</li> </ul> </li> <li>- MAC-hs queue to delete list</li> </ul> </li> <li>- DCH quality target</li> </ul>                                                                                                                                                                  |           | (one queue)<br>0<br>0<br>50<br>16<br>336<br>0<br>Not present<br>Not present                                                                                                                                                                                                            |         | RBS-2939<br>RBS-2940<br>RBS-2941<br>RBS-2942<br>RBS-2943<br>RBS-2944<br>RBS-2945<br>RBS-2946<br>RBS-2947<br>RBS-2948<br>RBS-2949                                     |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters               <ul style="list-style-type: none"> <li>- TFS</li> </ul> </li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format information</li> <li>- RLC Size</li> </ul>                                                                                                                                                                                                                                                                                                                              | A11       | 1 DCH for DTCH<br>DCH<br>9<br>Explicit<br>Dedicated transport channel<br>Reference to clause 6.10 Parameter Set                                                                                                                                                                        |         | RBS-2950<br>RBS-2951<br>RBS-2952<br>RBS-2953<br>RBS-2954<br>RBS-2955<br>RBS-2956<br>RBS-2957                                                                         |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Condition | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Version | Index                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <ul style="list-style-type: none"> <li>- Number of TBs and TTI List</li> <li>- Dynamic transport format information</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | (This IE is repeated for TFI number.)<br><br>Not Present<br>Reference to clause 6.10 Parameter Set All<br><br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>-20 (-2.0)                                                                                                                                                                                                                                                                                                                                                          |         | RBS-2958<br>RBS-2959<br><br>RBS-2960<br>RBS-2961<br>RBS-2962<br>RBS-2963<br><br>RBS-2964<br>RBS-2965<br>RBS-2966<br>RBS-2967<br>RBS-2968<br>RBS-2969<br>RBS-2970                                                                                                                                                                                                                                                                                                                     |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- HARQ Info</li> <li>- Number of Processes</li> <li>- CHOICE Memory</li> </ul> Partitioning <ul style="list-style-type: none"> <li>- Added or reconfigured MAC-d flow</li> <li>- MAC-hs queue to add or reconfigure list</li> <li>- MAC-hs queue Id</li> <li>- MAC-d Flow Identity</li> <li>- T1</li> <li>- MAC-hs window size</li> <li>- MAC-d PDU size Info</li> <li>- MAC-d PDU size</li> <li>- MAC-d PDU size index</li> <li>- MAC-hs queue to delete list</li> <li>- DCH quality target</li> </ul> | A13       | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH)<br>DCH<br>10<br>Explicit<br><br>Dedicated transport channels<br><br>Reference to clause 6.10 Parameter Set<br>(This IE is repeated for TFI number.)<br>Not Present<br>Reference to clause 6.10 Parameter Set All<br><br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>-20 (-2.0)<br>HS-DSCH<br>Not Present<br>HS-DSCH<br><br>Reference to clause 6.10.2.4.5<br>Parameter Set<br>Implicit<br><br>(one queue)<br><br>0<br>0<br>50<br>16<br><br>336<br>0<br>Not present<br>Not present | Rel-6   | RBS-2971<br><br>RBS-2972<br>RBS-2973<br>RBS-2974<br>RBS-2975<br>RBS-2976<br>RBS-2977<br><br>RBS-2978<br>RBS-2979<br>RBS-2980<br>RBS-2981<br>RBS-2982<br>RBS-2983<br><br>RBS-2984<br>RBS-2985<br>RBS-2986<br>RBS-2987<br>RBS-2988<br>RBS-2989<br>RBS-2990<br>RBS-2991<br>RBS-2992<br>RBS-2993<br>RBS-2994<br>RBS-2995<br><br>RBS-2996<br><br>RBS-2997<br><br>RBS-2998<br><br>RBS-2999<br>RBS-3000<br>RBS-3001<br>RBS-3002<br>RBS-3003<br>RBS-3004<br>RBS-3005<br>RBS-3006<br>RBS-3007 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A19a      | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH)<br>DCH<br>10<br>Explicit<br><br>Dedicated transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rel-7   | RBS-3008<br>RBS-3009<br>RBS-3010<br>RBS-3011<br>RBS-3012<br>RBS-3013<br>RBS-3014<br>RBS-3015<br>RBS-3016                                                                                                                                                                                                                                                                                                                                                                             |



| Information Element               | Condition  | Value/remark                                                                    | Version | Index    |
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| information                       |            | Reference to clause 6.10 Parameter Set<br>(This IE is repeated for TFI number.) |         | RBS-3017 |
| - RLC Size                        |            | Not Present                                                                     |         | RBS-3018 |
| - Number of TBs and TTI List      |            | Reference to clause 6.10 Parameter Set                                          |         | RBS-3019 |
| - Transmission Time Interval      |            | All                                                                             |         | RBS-3020 |
| - Number of Transport blocks      |            |                                                                                 |         | RBS-3021 |
| - CHOICE Logical channel list     |            |                                                                                 |         | RBS-3022 |
| - Semi-static Transport Format    |            |                                                                                 |         | RBS-3023 |
| information                       |            |                                                                                 |         | RBS-3024 |
| - Transmission time interval      |            | Reference to clause 6.10 Parameter Set                                          |         | RBS-3025 |
| - Type of channel coding          |            | Reference to clause 6.10 Parameter Set                                          |         | RBS-3026 |
| - Coding Rate                     |            | Reference to clause 6.10 Parameter Set                                          |         | RBS-3027 |
| - Rate matching attribute         |            | Reference to clause 6.10 Parameter Set                                          |         | RBS-3028 |
| - CRC size                        |            | Reference to clause 6.10 Parameter Set                                          |         | RBS-3029 |
| - DCH quality target              |            |                                                                                 |         | RBS-3030 |
| - BLER Quality value              |            | -20 (-2.0)                                                                      |         | RBS-3031 |
| - Downlink transport channel type |            | HS-DSCH                                                                         |         | RBS-3032 |
| - DL Transport channel identity   |            | Not Present                                                                     |         | RBS-3033 |
| - CHOICE DL parameters            |            | HS-DSCH                                                                         |         | RBS-3034 |
| - HARQ Info                       |            |                                                                                 |         | RBS-3035 |
| - Number of Processes             |            | Reference to clause 6.10.2.4.5<br>Parameter Set                                 |         | RBS-3036 |
| - CHOICE Memory                   |            | Implicit                                                                        |         | RBS-3037 |
| Partitioning                      |            |                                                                                 |         | RBS-3038 |
| - Added or reconfigured MAC-d     |            |                                                                                 |         | RBS-3039 |
| flow                              |            |                                                                                 |         | RBS-3040 |
| - MAC-hs queue to add or          |            | (one queue)                                                                     |         | RBS-3041 |
| reconfigure list                  |            |                                                                                 |         | RBS-3042 |
| - MAC-hs queue Id                 |            | 0                                                                               |         | RBS-3043 |
| - MAC-d Flow Identity             |            | 0                                                                               |         | RBS-3044 |
| - T1                              |            | 50                                                                              |         |          |
| - MAC-hs window size              |            | 16                                                                              |         |          |
| - MAC-d PDU size Info             |            |                                                                                 |         |          |
| - MAC-d PDU size                  |            | 336                                                                             |         |          |
| - MAC-d PDU size index            |            | 0                                                                               |         |          |
| - MAC-hs queue to delete list     |            | Not present                                                                     |         |          |
| - DCH quality target              |            | Not present                                                                     |         |          |
| Added or Reconfigured DL TrCH     | A14        | 1 TrCH (HS-DSCH for DTCH and<br>DCCH)                                           | Rel-6   | RBS-3045 |
| information                       | , A20      |                                                                                 | Rel-7   | RBS-3046 |
|                                   | , A31, A32 |                                                                                 | Rel-9   | RBS-3047 |
| - Downlink transport channel type |            | HS-DSCH                                                                         |         | RBS-3048 |
| - DL Transport channel identity   |            | Not Present                                                                     |         | RBS-3049 |
| - CHOICE DL parameters            |            | HS-DSCH                                                                         |         | RBS-3050 |
| - HARQ Info                       |            |                                                                                 |         | RBS-3051 |
| - Number of Processes             |            | Reference to clause 6.10.2.4.5<br>Parameter Set                                 |         | RBS-3052 |
| - CHOICE Memory                   |            | Implicit                                                                        |         | RBS-3053 |
| Partitioning                      |            |                                                                                 |         | RBS-3054 |
| - Added or reconfigured MAC-d     |            |                                                                                 |         |          |
| flow                              |            | (two queues)                                                                    |         | RBS-3055 |
| - MAC-hs queue to add or          |            |                                                                                 |         |          |
| reconfigure list                  |            |                                                                                 |         |          |
| - MAC-hs queue Id                 |            | 0 (for DTCH)                                                                    |         | RBS-3056 |
| - MAC-d Flow Identity             |            | 0                                                                               |         | RBS-3057 |
| - T1                              |            | 50                                                                              |         | RBS-3058 |
| - MAC-hs window size              |            | 16                                                                              |         | RBS-3059 |
| - MAC-d PDU size Info             |            |                                                                                 |         | RBS-3060 |
| - MAC-d PDU size                  |            | 336                                                                             |         | RBS-3061 |
| - MAC-d PDU size index            |            | 0                                                                               |         | RBS-3062 |
| - MAC-hs queue Id                 |            | 1 (for DCCH)                                                                    |         | RBS-3063 |
| - MAC-d Flow Identity             |            | 1                                                                               |         | RBS-3064 |
| - T1                              |            | 50                                                                              |         | RBS-3065 |
| - MAC-hs window size              |            | 16                                                                              |         | RBS-3066 |
| - MAC-d PDU size Info             |            |                                                                                 |         | RBS-3067 |
| - MAC-d PDU size                  |            | 148                                                                             |         | RBS-3068 |
| - MAC-d PDU size index            |            | 0                                                                               |         | RBS-3069 |
| - MAC-hs queue to delete list     |            | Not present                                                                     |         | RBS-3070 |

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|-------------------------------------------|-------------|---------------------------------------------|---------|----------|
| - DCH quality target                      |             | Not present                                 |         | RBS-3071 |
| Added or Reconfigured DL TrCH information | A15         | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) | Rel-6   | RBS-3072 |
| - Downlink transport channel type         |             | DCH                                         |         | RBS-3073 |
| - DL Transport channel identity           |             | 10                                          |         | RBS-3074 |
| - CHOICE DL parameters                    |             | Explicit                                    |         | RBS-3075 |
| - TFS                                     |             |                                             |         | RBS-3076 |
| - CHOICE Transport channel type           |             | Dedicated transport channels                |         | RBS-3077 |
| - Dynamic Transport format                |             |                                             |         | RBS-3078 |
| information                               |             |                                             |         |          |
| - RLC Size                                |             | Reference to clause 6.10 Parameter Set      |         | RBS-3079 |
| - Number of TBs and TTI List              |             | (This IE is repeated for TFI number.)       |         | RBS-3080 |
| - Transmission Time Interval              |             | Not Present                                 |         | RBS-3081 |
| - Number of Transport blocks              |             | Reference to clause 6.10 Parameter Set      |         | RBS-3082 |
| - CHOICE Logical channel list             |             | All                                         |         | RBS-3083 |
| - Semi-static Transport Format            |             |                                             |         | RBS-3084 |
| information                               |             |                                             |         |          |
| - Transmission time interval              |             | Reference to clause 6.10 Parameter Set      |         | RBS-3085 |
| - Type of channel coding                  |             | Reference to clause 6.10 Parameter Set      |         | RBS-3086 |
| - Coding Rate                             |             | Reference to clause 6.10 Parameter Set      |         | RBS-3087 |
| - Rate matching attribute                 |             | Reference to clause 6.10 Parameter Set      |         | RBS-3088 |
| - CRC size                                |             | Reference to clause 6.10 Parameter Set      |         | RBS-3089 |
| - DCH quality target                      |             |                                             |         | RBS-3090 |
| - BLER Quality value                      |             | -20 (-2.0)                                  |         | RBS-3091 |
| - Downlink transport channel type         |             | HS-DSCH                                     |         | RBS-3092 |
| - DL Transport channel identity           |             | Not Present                                 |         | RBS-3093 |
| - CHOICE DL parameters                    |             | HS-DSCH                                     |         | RBS-3094 |
| - HARQ Info                               |             |                                             |         | RBS-3095 |
| - Number of Processes                     |             | Reference to clause 6.10.2.4.5              |         | RBS-3096 |
| - CHOICE Memory                           |             | Parameter Set Implicit                      |         | RBS-3097 |
| Partitioning                              |             |                                             |         |          |
| - Added or reconfigured MAC-d flow        |             |                                             |         | RBS-3098 |
| - MAC-hs queue to add or reconfigure list |             | (two queues)                                |         | RBS-3099 |
| - MAC-hs queue Id                         |             | 0 (for first DTCH)                          |         | RBS-3100 |
| - MAC-d Flow Identity                     |             | 0                                           |         | RBS-3101 |
| - T1                                      |             | 50                                          |         | RBS-3102 |
| - MAC-hs window size                      |             | 16                                          |         | RBS-3103 |
| - MAC-d PDU size Info                     |             |                                             |         | RBS-3104 |
| - MAC-d PDU size                          |             | 336                                         |         | RBS-3105 |
| - MAC-d PDU size index                    |             | 0                                           |         | RBS-3106 |
| - MAC-hs queue Id                         |             | 2 (for second DTCH)                         |         | RBS-3107 |
| - MAC-d Flow Identity                     |             | 2                                           |         | RBS-3108 |
| - T1                                      |             | 50                                          |         | RBS-3109 |
| - MAC-hs window size                      |             | 16                                          |         | RBS-3110 |
| - MAC-d PDU size Info                     |             |                                             |         | RBS-3111 |
| - MAC-d PDU size                          |             | 336                                         |         | RBS-3112 |
| - MAC-d PDU size index                    |             | 0                                           |         | RBS-3113 |
| - MAC-hs queue to delete list             |             | Not present                                 |         | RBS-3114 |
| - DCH quality target                      |             | Not present                                 |         | RBS-3115 |
| Added or Reconfigured DL TrCH information | A16         | 1 TrCH (HS-DSCH for 2 DTCHs and DCCH)       | Rel-6   | RBS-3116 |
|                                           | , A19b, A21 |                                             | Rel-7   |          |
| - Downlink transport channel type         |             | HS-DSCH                                     |         | RBS-3117 |
| - DL Transport channel identity           |             | Not Present                                 |         | RBS-3118 |
| - CHOICE DL parameters                    |             | HS-DSCH                                     |         | RBS-3119 |
| - HARQ Info                               |             |                                             |         | RBS-3120 |
| - Number of Processes                     |             | Reference to clause 6.10.2.4.5              |         | RBS-3121 |
| - CHOICE Memory                           |             | Parameter Set Implicit                      |         | RBS-3122 |
| Partitioning                              |             |                                             |         |          |
| - Added or reconfigured MAC-d flow        |             |                                             |         | RBS-3123 |
| - MAC-hs queue to add or reconfigure list |             | (three queues)                              |         | RBS-3124 |
|                                           |             |                                             |         | RBS-3125 |

| Information Element                              | Condition      | Value/remark                                | Version | Index    |
|--------------------------------------------------|----------------|---------------------------------------------|---------|----------|
| - MAC-hs queue Id                                |                | 0 (for first DTCH)                          |         | RBS-3126 |
| - MAC-d Flow Identity                            |                | 0                                           |         | RBS-3127 |
| - T1                                             |                | 50                                          |         | RBS-3128 |
| - MAC-hs window size                             |                | 16                                          |         | RBS-3129 |
| - MAC-d PDU size Info                            |                |                                             |         | RBS-3130 |
| - MAC-d PDU size                                 |                | 336                                         |         | RBS-3131 |
| - MAC-d PDU size index                           |                | 0                                           |         | RBS-3132 |
| - MAC-hs queue Id                                |                | 1 (for DCCH)                                |         | RBS-3133 |
| - MAC-d Flow Identity                            |                | 1                                           |         | RBS-3134 |
| - T1                                             |                | 50                                          |         | RBS-3135 |
| - MAC-hs window size                             |                | 16                                          |         | RBS-3136 |
| - MAC-d PDU size Info                            |                |                                             |         | RBS-3137 |
| - MAC-d PDU size                                 |                | 148                                         |         | RBS-3138 |
| - MAC-d PDU size index                           |                | 0                                           |         | RBS-3139 |
| - MAC-hs queue Id                                |                | 3 (for second DTCH)                         |         | RBS-3140 |
| - MAC-d Flow Identity                            |                | 3                                           |         | RBS-3141 |
| - T1                                             |                | 50                                          |         | RBS-3142 |
| - MAC-hs window size                             |                | 16                                          |         | RBS-3143 |
| - MAC-d PDU size Info                            |                |                                             |         | RBS-3144 |
| - MAC-d PDU size                                 |                | 112                                         |         | RBS-3145 |
| - MAC-d PDU size index                           |                | 0                                           |         | RBS-3146 |
| - MAC-d PDU size                                 |                | 144                                         |         | RBS-3147 |
| - MAC-d PDU size index                           |                | 1                                           |         | RBS-3148 |
| - MAC-d PDU size                                 |                | 160                                         |         | RBS-3149 |
| - MAC-d PDU size index                           |                | 2                                           |         | RBS-3150 |
| - MAC-d PDU size                                 |                | 176                                         |         | RBS-3151 |
| - MAC-d PDU size index                           |                | 3                                           |         | RBS-3152 |
| - MAC-d PDU size                                 |                | 192                                         |         | RBS-3153 |
| - MAC-d PDU size index                           |                | 4                                           |         | RBS-3154 |
| - MAC-d PDU size                                 |                | 224                                         |         | RBS-3155 |
| - MAC-d PDU size index                           |                | 5                                           |         | RBS-3156 |
| - MAC-d PDU size                                 |                | 296                                         |         | RBS-3157 |
| - MAC-d PDU size index                           |                | 6                                           |         | RBS-3158 |
| - MAC-d PDU size                                 |                | 344                                         |         | RBS-3159 |
| - MAC-d PDU size index                           |                | 7                                           |         | RBS-3160 |
| - MAC-hs queue to delete list                    |                | Not present                                 |         | RBS-3161 |
| - DCH quality target                             |                | Not present                                 |         | RBS-3162 |
| Added or Reconfigured DL TrCH information        | A17, A17a, A18 | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) | Rel-7   | RBS-3163 |
|                                                  | , A25a         |                                             | Rel-8   | RBS-3164 |
| - Downlink transport channel type                |                | DCH                                         |         | RBS-3165 |
| - DL Transport channel identity                  |                | 10                                          |         | RBS-3166 |
| - CHOICE DL parameters                           |                | Same as UL                                  |         | RBS-3167 |
| - Uplink transport channel type                  |                | DCH                                         |         | RBS-3168 |
| - UL TrCH identity                               |                | 5                                           |         | RBS-3169 |
| - DCH quality target                             |                |                                             |         | RBS-3170 |
| - BLER Quality value                             |                | -20 (-2.0)                                  |         | RBS-3171 |
| - Downlink transport channel type                |                | HS-DSCH                                     |         | RBS-3172 |
| - DL Transport channel identity                  |                | Not Present                                 |         | RBS-3173 |
| - CHOICE DL parameters                           |                | HS-DSCH                                     |         | RBS-3174 |
| - HARQ Info                                      |                |                                             |         | RBS-3175 |
| - Number of Processes                            |                | Reference to clause 6.10.2.4.5              |         | RBS-3176 |
| - CHOICE Memory                                  |                | Parameter Set                               |         |          |
| Partitioning                                     |                | Implicit                                    |         | RBS-3177 |
| - CHOICE DL MAC header type                      |                | MAC-ehs                                     |         | RBS-3178 |
| - Added or reconfigured MAC-ehs reordering queue |                |                                             |         | RBS-3179 |
| - MAC-ehs queue to add or reconfigure list       |                | (one queue)                                 |         | RBS-3180 |
| - MAC-ehs queue Id                               |                | 0                                           |         | RBS-3181 |
| - T1                                             |                | 50                                          |         | RBS-3182 |
| - MAC-ehs window size                            |                | 16                                          |         | RBS-3183 |
| - MAC-ehs queue to delete list                   |                | Not present                                 |         | RBS-3184 |
| - DCH quality target                             |                | Not present                                 |         | RBS-3185 |

| Information Element                              | Condition                                        | Value/remark                                    | Version                  | Index    |
|--------------------------------------------------|--------------------------------------------------|-------------------------------------------------|--------------------------|----------|
| Added or Reconfigured DL TrCH information        | A17b, A17c, A28a<br>A25c<br>, A33, A34, A36, A37 | 1 TrCH (HS-DSCH for DTCH and DCCH)              | Rel-7<br>Rel-9<br>Rel-10 | RBS-3186 |
| - Downlink transport channel type                |                                                  | HS-DSCH                                         |                          | RBS-3187 |
| - DL Transport channel identity                  |                                                  | Not Present                                     |                          | RBS-3188 |
| - CHOICE DL parameters                           |                                                  | HS-DSCH                                         |                          | RBS-3189 |
| - HARQ Info                                      |                                                  |                                                 |                          | RBS-3190 |
| - Number of Processes                            |                                                  | Reference to clause 6.10.2.4.5<br>Parameter Set |                          | RBS-3191 |
| - CHOICE Memory                                  |                                                  | Implicit                                        |                          | RBS-3192 |
| Partitioning                                     |                                                  |                                                 |                          |          |
| - CHOICE DL MAC header type                      |                                                  | MAC-ehs                                         |                          | RBS-3193 |
| - Added or reconfigured MAC-ehs reordering queue |                                                  |                                                 |                          | RBS-3194 |
| - MAC-hs queue to add or reconfigure list        |                                                  | (two queues)                                    |                          | RBS-3195 |
| - MAC-ehs queue Id                               |                                                  | 0 (for DTCH)                                    |                          | RBS-3196 |
| - T1                                             |                                                  | 50                                              |                          | RBS-3197 |
| - MAC-ehs window size                            |                                                  | 16                                              |                          | RBS-3198 |
| - MAC-ehs queue Id                               |                                                  | 1 (for DCCH)                                    |                          | RBS-3199 |
| - T1                                             |                                                  | 50                                              |                          | RBS-3200 |
| - MAC-hs window size                             |                                                  | 16                                              |                          | RBS-3201 |
| - MAC-ehs queue to delete                        |                                                  | Not present                                     |                          | RBS-3202 |
| list                                             |                                                  |                                                 |                          |          |
| - DCH quality target                             |                                                  | Not present                                     |                          | RBS-3203 |
| Added or Reconfigured DL TrCH information        | A17d, A17e, A17f<br>, A25b                       | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH)     | Rel-7<br>Rel-8           | RBS-3204 |
| - Downlink transport channel type                |                                                  | DCH                                             |                          | RBS-3205 |
| - DL Transport channel identity                  |                                                  | 10                                              |                          | RBS-3206 |
| - CHOICE DL parameters                           |                                                  | Explicit                                        |                          | RBS-3207 |
| - TFS                                            |                                                  |                                                 |                          | RBS-3208 |
| - CHOICE Transport channel type                  |                                                  | Dedicated transport channels                    |                          | RBS-3209 |
| - Dynamic Transport format                       |                                                  |                                                 |                          | RBS-3210 |
| information                                      |                                                  |                                                 |                          | RBS-3211 |
| - RLC Size                                       |                                                  | Reference to clause 6.10 Parameter Set          |                          | RBS-3212 |
| - Number of TBs and TTI List                     |                                                  | (This IE is repeated for TFI number.)           |                          | RBS-3213 |
| - Transmission Time Interval                     |                                                  | Not Present                                     |                          | RBS-3214 |
| - Number of Transport blocks                     |                                                  | Reference to clause 6.10 Parameter Set          |                          | RBS-3215 |
| - CHOICE Logical channel list                    |                                                  | All                                             |                          | RBS-3216 |
| - Semi-static Transport Format                   |                                                  |                                                 |                          | RBS-3217 |
| information                                      |                                                  |                                                 |                          |          |
| - Transmission time interval                     |                                                  | Reference to clause 6.10 Parameter Set          |                          | RBS-3218 |
| - Type of channel coding                         |                                                  | Reference to clause 6.10 Parameter Set          |                          | RBS-3219 |
| - Coding Rate                                    |                                                  | Reference to clause 6.10 Parameter Set          |                          | RBS-3220 |
| - Rate matching attribute                        |                                                  | Reference to clause 6.10 Parameter Set          |                          | RBS-3221 |
| - CRC size                                       |                                                  | Reference to clause 6.10 Parameter Set          |                          | RBS-3222 |
| - DCH quality target                             |                                                  |                                                 |                          | RBS-3223 |
| - BLER Quality value                             |                                                  | -20 (-2.0)                                      |                          | RBS-3224 |
| - Downlink transport channel type                |                                                  | HS-DSCH                                         |                          | RBS-3225 |
| - DL Transport channel identity                  |                                                  | Not Present                                     |                          | RBS-3226 |
| - CHOICE DL parameters                           |                                                  | HS-DSCH                                         |                          | RBS-3227 |
| - HARQ Info                                      |                                                  |                                                 |                          | RBS-3228 |
| - Number of Processes                            |                                                  | Reference to clause 6.10.2.4.5<br>Parameter Set |                          | RBS-3229 |
| - CHOICE Memory                                  |                                                  | Implicit                                        |                          | RBS-3230 |
| Partitioning                                     |                                                  |                                                 |                          |          |
| - CHOICE DL MAC header type                      |                                                  | MAC-ehs                                         |                          | RBS-3231 |
| - Added or reconfigured MAC-ehs reordering queue |                                                  |                                                 |                          | RBS-3232 |
| - MAC-ehs queue to add or reconfigure list       |                                                  | (one queue)                                     |                          | RBS-3233 |
| - MAC-ehs queue Id                               |                                                  | 0                                               |                          | RBS-3234 |
| - T1                                             |                                                  | 50                                              |                          | RBS-3235 |
| - MAC-ehs window size                            |                                                  | 16                                              |                          | RBS-3236 |
| - MAC-ehs queue to delete                        |                                                  | Not present                                     |                          | RBS-3237 |
| list                                             |                                                  |                                                 |                          |          |

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|--------------------------------------------------|-----------|----------------------------------------|----------------|----------|
| - DCH quality target                             |           | Not present                            |                | RBS-3238 |
| Added or Reconfigured DL TrCH information        | A22       | 1 TrCH (HS-DSCH for 2 DTCHs and DCCH)  | Rel-7          | RBS-3239 |
| - Downlink transport channel type                |           | HS-DSCH                                |                | RBS-3240 |
| - DL Transport channel identity                  |           | Not Present                            |                | RBS-3241 |
| - CHOICE DL parameters                           |           | HS-DSCH                                |                | RBS-3242 |
| - HARQ Info                                      |           |                                        |                | RBS-3243 |
| - Number of Processes                            |           | Reference to clause 6.10.2.4.5         |                | RBS-3244 |
| - CHOICE Memory                                  |           | Parameter Set Implicit                 |                | RBS-3245 |
| Partitioning                                     |           |                                        |                |          |
| - CHOICE DL MAC header type                      |           | MAC-ehs                                |                | RBS-3246 |
| - Added or reconfigured MAC-ehs reordering queue |           |                                        |                | RBS-3247 |
| - MAC-ehs queue to add or reconfigure list       |           | (three queues)                         |                | RBS-3248 |
| - MAC-ehs queue Id                               |           | 0 (for first DTCH)                     |                | RBS-3249 |
| - T1                                             |           | 50                                     |                | RBS-3250 |
| - MAC-ehs window size                            |           | 16                                     |                | RBS-3251 |
| - MAC-ehs queue Id                               |           | 1 (for DCCH)                           |                | RBS-3252 |
| - T1                                             |           | 50                                     |                | RBS-3253 |
| - MAC-ehs window size                            |           | 16                                     |                | RBS-3254 |
| - MAC-ehs queue Id                               |           | 3 (for second DTCH)                    |                | RBS-3255 |
| - T1                                             |           | 50                                     |                | RBS-3256 |
| - MAC-ehs window size                            |           | 16                                     |                | RBS-3257 |
| - MAC-ehs queue to delete                        |           | Not present                            |                | RBS-3258 |
| list                                             |           |                                        |                |          |
| - DCH quality target                             |           | Not present                            |                | RBS-3259 |
| Added or Reconfigured DL TrCH information        | A23       | 1 TrCH (HS-DSCH for DTCHs and DCCH)    | Rel-7<br>Rel-8 | RBS-3260 |
| - Downlink transport channel type                |           | HS-DSCH                                |                | RBS-3261 |
| - DL Transport channel identity                  |           | Not Present                            |                | RBS-3262 |
| - CHOICE DL parameters                           |           | HS-DSCH                                |                | RBS-3263 |
| - HARQ Info                                      |           |                                        |                | RBS-3264 |
| - Number of Processes                            |           | Reference to clause 6.10 Parameter Set |                | RBS-3265 |
| - CHOICE Memory                                  |           | Implicit                               |                | RBS-3266 |
| Partitioning                                     |           |                                        |                |          |
| - CHOICE DL MAC header type                      |           | MAC-ehs                                |                | RBS-3267 |
| - Added or reconfigured MAC-ehs reordering queue |           |                                        |                | RBS-3268 |
| - MAC-ehs queue to add or reconfigure list       |           | (two queues)                           |                | RBS-3269 |
| - MAC-ehs queue Id                               |           | 0 (for DTCH)                           |                | RBS-3270 |
| - T1                                             |           | 50                                     |                | RBS-3271 |
| - MAC-ehs window size                            |           | 16                                     |                | RBS-3272 |
| - MAC-ehs queue Id                               |           | 1 (for DCCH)                           |                | RBS-3273 |
| - T1                                             |           | 50                                     |                | RBS-3274 |
| - MAC-ehs window size                            |           | 16                                     |                | RBS-3275 |
| - MAC-ehs queue to delete                        |           | Not present                            |                | RBS-3276 |
| list                                             |           |                                        |                |          |
| - DCH quality target                             |           | Not present                            |                | RBS-3277 |
| Added or Reconfigured DL TrCH information        | A25       | 1 TrCH (HS-DSCH for DTCH and DCCH)     | Rel-8          | RBS-3278 |
| - Downlink transport channel type                |           | HS-DSCH                                |                | RBS-3279 |
| - DL Transport channel identity                  |           | Not Present                            |                | RBS-3280 |
| - CHOICE DL parameters                           |           | HS-DSCH                                |                | RBS-3281 |
| - HARQ Info                                      |           |                                        |                | RBS-3282 |
| - Number of Processes                            |           | Reference to clause 6.10.2.4.5         |                | RBS-3283 |
| - CHOICE Memory                                  |           | Parameter Set Implicit                 |                | RBS-3284 |
| Partitioning                                     |           |                                        |                |          |
| - CHOICE DL MAC header type                      |           | MAC-ehs                                |                | RBS-3285 |
| - Added or reconfigured MAC-ehs reordering queue |           |                                        |                | RBS-3286 |
| - MAC-ehs queue to add or reconfigure list       |           | (two queues)                           |                | RBS-3287 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Condition | Value/remark                                                                                                                                                                                                 | Version | Index                                                                                                                                                        |
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| <ul style="list-style-type: none"> <li>- MAC-ehs queue Id</li> <li>- T1</li> <li>- MAC-ehs window size</li> <li>- MAC-ehs queue Id</li> <li>- T1</li> <li>- MAC-ehs window size</li> <li>- MAC-ehs queue to delete</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 0 (for DTCH)<br>50<br>16<br>1 (for DCCH)<br>50<br>16<br>Not present                                                                                                                                          |         | RBS-3288<br>RBS-3289<br>RBS-3290<br>RBS-3291<br>RBS-3292<br>RBS-3293<br>RBS-3294                                                                             |
| list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                                                                                                                                                                                                  |         | RBS-3295                                                                                                                                                     |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters               <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> </ul> </li> <li>- DCH quality target               <ul style="list-style-type: none"> <li>- BLER Quality value</li> </ul> </li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters               <ul style="list-style-type: none"> <li>- HARQ Info                   <ul style="list-style-type: none"> <li>- Number of Processes</li> </ul> </li> <li>- CHOICE Memory</li> </ul> </li> </ul> | A28       | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH)<br>DCH<br>10<br>Same as UL<br>DCH<br>5<br><br>-20 (-2.0)<br>HS-DSCH<br>Not Present<br>HS-DSCH<br><br>Reference to clause 6.10.2.4.5<br>Parameter Set<br>Implicit | Rel-8   | RBS-3296<br><br>RBS-3297<br>RBS-3298<br>RBS-3299<br>RBS-3300<br>RBS-3301<br>RBS-3302<br>RBS-3303<br>RBS-3304<br>RBS-3305<br>RBS-3306<br>RBS-3307<br>RBS-3308 |
| Partitioning <ul style="list-style-type: none"> <li>- CHOICE DL MAC header type               <ul style="list-style-type: none"> <li>- Added or reconfigured MAC-ehs reordering queue                   <ul style="list-style-type: none"> <li>- MAC-ehs queue to add or reconfigure list                       <ul style="list-style-type: none"> <li>- MAC-ehs queue Id</li> <li>- T1</li> <li>- MAC-ehs window size</li> <li>- MAC-ehs queue to delete</li> </ul> </li> </ul> </li> </ul> </li> </ul>                                                                                                                                                                                                                                                                     |           | MAC-ehs<br><br>(one queue)<br><br>0<br>50<br>32<br>Not present                                                                                                                                               |         | RBS-3309<br><br>RBS-3310<br>RBS-3311<br><br>RBS-3312<br><br>RBS-3313<br>RBS-3314<br>RBS-3315<br>RBS-3316                                                     |
| list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                                                                                                                                                                                                  |         | RBS-3317                                                                                                                                                     |
| Added or Reconfigured DL TrCH information list <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters               <ul style="list-style-type: none"> <li>- HARQ Info                   <ul style="list-style-type: none"> <li>- Number of Processes</li> <li>- CHOICE Memory</li> </ul> </li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                 | A24, A29  | 1 TrCH (HS-DSCH for DTCH)<br><br>HS-DSCH<br>Not Present<br>HS-DSCH<br><br>Reference to clause 6.10 Parameter Set<br>Implicit                                                                                 |         | RBS-3318<br><br>RBS-3319<br>RBS-3320<br>RBS-3321<br>RBS-3322<br>RBS-3323<br>RBS-3324                                                                         |
| Partitioning <ul style="list-style-type: none"> <li>- CHOICE DL MAC header type               <ul style="list-style-type: none"> <li>- Added or reconfigured MAC-ehs reordering queue                   <ul style="list-style-type: none"> <li>- MAC-ehs queue to add or reconfigure list                       <ul style="list-style-type: none"> <li>- MAC-ehs queue Id</li> <li>- T1</li> <li>- MAC-ehs window size</li> </ul> </li> </ul> </li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                        |           | MAC-ehs<br><br>(one queue)<br><br>2 (for DTCH)<br>50<br>16<br>Not present                                                                                                                                    |         | RBS-3325<br>RBS-3326<br><br>RBS-3327<br><br>RBS-3328<br>RBS-3329<br>RBS-3330<br>RBS-3331                                                                     |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A26       | 2 TrCHs (DCH for DCCH and HS-DSCH for 3 DTCHs)<br>DCH<br>10<br>Explicit<br><br>Dedicated transport channels                                                                                                  | Rel-8   | RBS-3332<br><br>RBS-3333<br>RBS-3334<br>RBS-3335<br>RBS-3336<br>RBS-3337<br>RBS-3338                                                                         |
| information <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set<br>(This IE is repeated for TFI number.)<br>Not Present                                                                                                               |         | RBS-3339<br>RBS-3340<br>RBS-3341                                                                                                                             |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Condition | Value/remark                                          | Version | Index    |
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| <ul style="list-style-type: none"> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target <ul style="list-style-type: none"> <li>- BLER Quality value</li> </ul> </li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters <ul style="list-style-type: none"> <li>- HARQ Info <ul style="list-style-type: none"> <li>- Number of Processes</li> </ul> </li> </ul> </li> <li>- CHOICE <i>Memory Partitioning</i> <ul style="list-style-type: none"> <li>- CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> <li>- Added or reconfigured MAC-ehs reordering queue</li> <li>- MAC-ehs queue to add or reconfigure list</li> </ul> </li> </ul> </li> <li>- MAC-ehs queue Id</li> <li>- T1</li> <li>- MAC-ehs window size</li> <li>- MAC-ehs queue Id</li> <li>- T1</li> <li>- MAC-ehs window size</li> <li>- MAC-ehs queue Id</li> <li>- T1</li> <li>- MAC-ehs window size</li> <li>- DCH quality target</li> </ul> |           | Reference to clause 6.10 Parameter Set All            |         | RBS-3342 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                       |         | RBS-3343 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Reference to clause 6.10 Parameter Set                |         | RBS-3346 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                       |         | RBS-3350 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | -20 (-2.0)                                            |         | RBS-3351 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | HS-DSCH                                               |         | RBS-3352 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                           |         | RBS-3353 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | HS-DSCH                                               |         | RBS-3354 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                       |         | RBS-3355 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Reference to clause 6.10.2.4.5 Parameter Set Implicit |         | RBS-3357 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | MAC-ehs                                               |         | RBS-3358 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                       |         | RBS-3359 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | (three queues)                                        |         | RBS-3360 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                       |         | RBS-3361 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 2 (for first DTCH)                                    |         | RBS-3362 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 50                                                    |         | RBS-3363 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 16                                                    |         | RBS-3364 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 3 (for second DTCH)                                   |         | RBS-3365 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 50                                                    |         | RBS-3366 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 16                                                    |         | RBS-3367 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 4 (for third DTCH)                                    |         | RBS-3368 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 50                                                    |         | RBS-3369 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 16                                                    |         | RBS-3370 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Not present                                           |         | RBS-3371 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters <ul style="list-style-type: none"> <li>- HARQ Info <ul style="list-style-type: none"> <li>- Number of Processes</li> </ul> </li> </ul> </li> <li>- CHOICE <i>Memory Partitioning</i> <ul style="list-style-type: none"> <li>- CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> <li>- Added or reconfigured MAC-ehs reordering queue</li> <li>- MAC-ehs queue to add or reconfigure list</li> </ul> </li> </ul> </li> <li>- MAC-ehs queue Id</li> <li>- T1</li> <li>- MAC-ehs window size</li> <li>- MAC-ehs queue Id</li> <li>- T1</li> <li>- MAC-ehs window size</li> <li>- DCH quality target</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                             | A27, A27a | 1 TrCH (HS-DSCH for 2 DTCHs and DCCH)                 | Rel-8   | RBS-3372 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | HS-DSCH                                               |         | RBS-3373 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                           |         | RBS-3374 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | HS-DSCH                                               |         | RBS-3375 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                       |         | RBS-3376 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                       |         | RBS-3377 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Reference to clause 6.10.2.4.5 Parameter Set Implicit |         | RBS-3378 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | MAC-ehs                                               |         | RBS-3379 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                       |         | RBS-3380 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | (two queues)                                          |         | RBS-3381 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 0 (for first DTCH)                                    |         | RBS-3382 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 50                                                    |         | RBS-3383 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 16                                                    |         | RBS-3384 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 1 (for DCCH)                                          |         | RBS-3385 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 50                                                    |         | RBS-3386 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 16                                                    |         | RBS-3387 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Not present                                           |         | RBS-3388 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters <ul style="list-style-type: none"> <li>- HARQ Info <ul style="list-style-type: none"> <li>- Number of Processes</li> </ul> </li> </ul> </li> <li>- CHOICE <i>Memory Partitioning</i></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A30       | 1 TrCH (HS-DSCH for DTCH and DCCH)                    | Rel-8   | RBS-3389 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | HS-DSCH                                               |         | RBS-3390 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                           |         | RBS-3391 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | HS-DSCH                                               |         | RBS-3392 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                       |         | RBS-3393 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Reference to clause 6.10.2.4.5 Parameter Set Implicit |         | RBS-3394 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                       |         | RBS-3395 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Version | Index |
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| <div>- CHOICE <i>DL MAC header type</i></div> <div>- Added or reconfigured MAC-ehs reordering queue</div> <div>- MAC-hs queue to add or reconfigure list</div> <div>- MAC-ehs queue Id</div> <div>- T1</div> <div>- MAC-ehs window size</div> <div>- MAC-ehs queue Id</div> <div>- T1</div> <div>- MAC-hs window size</div> <div>- MAC-ehs queue to delete list</div> <div>- DCH quality target</div> <div>Added or Reconfigured DL TrCH information list</div> <div>- Downlink transport channel type</div> <div>- DL Transport channel identity</div> <div>- CHOICE DL parameters</div> <div>- Uplink transport channel type</div> <div>- UL TrCH identity</div> <div>- DCH quality target</div> <div>- Downlink transport channel type</div> <div>- DL Transport channel identity</div> <div>- CHOICE DL parameters</div> <div>- HARQ Info</div> <div>- Number of Processes</div> <div>- CHOICE <i>Memory</i></div> <div><i>Partitioning</i></div> <div>- CHOICE <i>DL MAC header type</i></div> <div>- Added or reconfigured MAC-ehs reordering queue</div> <div>- MAC-ehs queue to add or reconfigure list</div> <div>- MAC-ehs queue Id</div> <div>- T1</div> <div>- MAC-ehs window size</div> <div>- DCH quality target</div> | A35<br>A38, A39, A40, A41, A42, A43, A44, A45<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><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| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition                                                                                              | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Version                                | Index                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A6<br>, A29<br>, A31, A32<br>, A33, A34, A35,<br>A36, A37<br>A38, A39, A40, A41,<br>A42, A43, A44, A45 | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Rel-8<br>Rel-9<br>Rel-10<br><br>Rel-11 | RBS-3447<br>RBS-3448<br>RBS-3449                                                                                                                                                                                                                                                 |
| DTX-DRX timing information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A20, A21<br>, A23                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Rel-7<br>Rel-7<br>Rel-8                | RBS-3450<br>RBS-3451                                                                                                                                                                                                                                                             |
| CHOICE <i>timing</i><br>- New timing<br>- Enabling Delay<br>- UE DTX DRX Offset<br>DTX-DRX Information<br>- CHOICE <i>E-DCH TTI length</i><br><br>- UE DTX cycle 1<br>- UE DTX cycle 2<br>- MAC DTX cycle<br>- Inactivity Threshold for UE DTX cycle 2<br>- UE DTX long preamble length<br>- MAC Inactivity Threshold<br>- CQI DTX Timer<br>- UE DPCCH burst_1<br>- UE DPCCH burst_2<br>DRX Information<br>- UE DRX cycle<br>- Inactivity Threshold for UE DRX cycle<br>- Inactivity Threshold for UE Grant Monitoring<br>- UE DRX Grant Monitoring<br>Uplink DPCCH slot format information<br>HS-SCCH less information |                                                                                                        | 0<br>1 if 2ms TTI selected, otherwise 0<br><br>Unless stated otherwise, this should be set to 2ms if the UE supports 2ms TTI, or 10ms if the UE does not support 2ms TTI.<br>8 if 2ms TTI selected, otherwise 10<br>16 if 2ms TTI selected, otherwise 20<br>8 if 2ms TTI selected, otherwise 10<br>32 if 2ms TTI selected, otherwise 8<br><br>4<br>1 if 2ms TTI selected, otherwise 8<br>32<br>1<br>1<br><br>8 if 2ms TTI selected, otherwise 10<br>32<br>32 if 2ms TTI selected, otherwise 8<br><br>TRUE<br>1<br>Not Present |                                        | RBS-3452<br>RBS-3453<br>RBS-3454<br>RBS-3455<br>RBS-3456<br>RBS-3457<br><br>RBS-3458<br>RBS-3459<br>RBS-3460<br>RBS-3461<br><br>RBS-3462<br>RBS-3463<br>RBS-3464<br>RBS-3465<br>RBS-3466<br>RBS-3467<br>RBS-3468<br>RBS-3469<br>RBS-3470<br><br>RBS-3471<br>RBS-3472<br>RBS-3473 |
| MIMO parameters<br><br>- MIMO operation<br>- CHOICE mode<br>- MIMO N_cqi_typeA/M_cqi ratio<br>- MIMO pilot configuration<br>- CHOICE Second CPICH pattern<br>- Channelisation code                                                                                                                                                                                                                                                                                                                                                                                                                                      | A28a<br>, A28                                                                                          | start<br>FDD<br>1/1<br><br>Antenna1 S-CPICH<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rel-7<br>Rel-8                         | RBS-3474<br><br>RBS-3475<br>RBS-3476<br>RBS-3477<br>RBS-3478<br>RBS-3479<br>RBS-3480                                                                                                                                                                                             |
| MIMO parameters<br><br>- MIMO operation<br>- CHOICE mode<br>- MIMO N_cqi_typeA/M_cqi ratio<br>- MIMO pilot configuration<br>-CHOICE Second CPICH pattern<br>- Channelisation code<br>- Power Offset for S-CPICH for MIMO<br>- Precoding weight set restriction                                                                                                                                                                                                                                                                                                                                                          | A31<br>, A34                                                                                           | start<br>FDD<br>1/1<br><br>Antenna1 S-CPICH<br>13<br>0<br><br>True                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rel-9<br>Rel-10                        | RBS-3481<br><br>RBS-3482<br>RBS-3483<br>RBS-3484<br>RBS-3485<br>RBS-3486<br>RBS-3487<br>RBS-3488<br>RBS-3489                                                                                                                                                                     |
| MIMO parameters<br><br>- MIMO operation<br>- CHOICE mode<br>- MIMO N_cqi_typeA/M_cqi ratio<br>- MIMO pilot configuration<br>-CHOICE Second CPICH pattern<br>- Channelisation code<br>- Power Offset for S-CPICH for MIMO                                                                                                                                                                                                                                                                                                                                                                                                | A32,<br>A33                                                                                            | start<br>FDD<br>1/1<br><br>Antenna1 S-CPICH<br>29<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rel-9<br>Rel-10                        | RBS-3490<br><br>RBS-3491<br>RBS-3492<br>RBS-3493<br>RBS-3494<br>RBS-3495<br>RBS-3496<br>RBS-3497                                                                                                                                                                                 |

| Information Element                | Condition                                                                                                                                                                                                        | Value/remark                           | Version                                                                     | Index                                                                                                |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| - Precoding weight set restriction |                                                                                                                                                                                                                  | True                                   |                                                                             | RBS-3498                                                                                             |
| Maximum allowed UL TX power        | A1, A2, A3, A4, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17d, A17e, A17f A18, A19, A19a, A19b, A20, A21, A22, A24, A23, A28a, A25, A25a, A25b, A26, A27, A27a, A28, A29, A30, A25c | 33dBm                                  | Rel-5<br>Rel-6<br><br>Rel-7<br><br><br>Rel-7<br>Rel-8<br>Rel-8<br><br>Rel-9 | RBS-3499<br><br>RBS-3500<br>RBS-3501<br><br>RBS-3502<br><br><br>RBS-3503<br>RBS-3504<br><br>RBS-3505 |
|                                    | A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45                                                                                                                                                  |                                        | Rel-10<br><br>Rel-11                                                        | RBS-3506                                                                                             |
| Maximum allowed UL TX power        | A5, A6                                                                                                                                                                                                           | Not Present                            |                                                                             | RBS-3507                                                                                             |
| CHOICE channel requirement         | A1, A2, A3, A4, A7, A8, A11                                                                                                                                                                                      | Uplink DPCH info                       | Rel-5 and earlier                                                           | RBS-3508                                                                                             |
| - Uplink DPCH power control info   |                                                                                                                                                                                                                  | -40 (-80dB)                            |                                                                             | RBS-3509                                                                                             |
| - DPCCH power offset               |                                                                                                                                                                                                                  | 1 frame                                |                                                                             | RBS-3510                                                                                             |
| - PC Preamble                      |                                                                                                                                                                                                                  | 7 frames                               |                                                                             | RBS-3511                                                                                             |
| - SRB delay                        |                                                                                                                                                                                                                  | Algorithm1                             |                                                                             | RBS-3512                                                                                             |
| - Power Control Algorithm          |                                                                                                                                                                                                                  | 0 (1dB)                                |                                                                             | RBS-3513                                                                                             |
| - TPC step size                    |                                                                                                                                                                                                                  | Not Present                            | Rel-5                                                                       | RBS-3514                                                                                             |
| - <input type="checkbox"/> NACK    |                                                                                                                                                                                                                  | Not Present                            | Rel-5                                                                       | RBS-3515                                                                                             |
| - <input type="checkbox"/> NACK    |                                                                                                                                                                                                                  | Not Present                            | Rel-5                                                                       | RBS-3516                                                                                             |
| - Ack-Nack repetition factor       |                                                                                                                                                                                                                  | Long                                   | Rel-5                                                                       | RBS-3517                                                                                             |
| - Scrambling code type             |                                                                                                                                                                                                                  | 0 (0 to 16777215)                      |                                                                             | RBS-3518                                                                                             |
| - Scrambling code number           |                                                                                                                                                                                                                  | Not Present(1)                         |                                                                             | RBS-3519                                                                                             |
| - Number of DPDCH                  |                                                                                                                                                                                                                  | Reference to clause 6.10 Parameter Set |                                                                             | RBS-3520                                                                                             |
| - spreading factor                 |                                                                                                                                                                                                                  | Reference to clause 6.10 Parameter Set |                                                                             | RBS-3521                                                                                             |
| - TFCI existence                   |                                                                                                                                                                                                                  | Reference to clause 6.10 Parameter Set |                                                                             | RBS-3522                                                                                             |
| - Number of FBI bit                |                                                                                                                                                                                                                  | Reference to clause 6.10 Parameter Set |                                                                             | RBS-3523                                                                                             |
| - Puncturing Limit                 |                                                                                                                                                                                                                  | Reference to clause 6.10 Parameter Set |                                                                             | RBS-3524                                                                                             |
| - Number of TPC bits               |                                                                                                                                                                                                                  | Not Present                            | Rel-7                                                                       | RBS-3525                                                                                             |
| CHOICE channel requirement         | A9, A10, A17, A17a, A18, A25a, A28                                                                                                                                                                               | Uplink DPCH info                       | Rel-5<br>Rel-7<br>Rel-8                                                     | RBS-3526<br>RBS-3527<br>RBS-3528                                                                     |
| - Uplink DPCH power control info   |                                                                                                                                                                                                                  | -40 (-80dB)                            |                                                                             | RBS-3529                                                                                             |
| - DPCCH power offset               |                                                                                                                                                                                                                  | 1 frame                                |                                                                             | RBS-3530                                                                                             |
| - PC Preamble                      |                                                                                                                                                                                                                  | 7 frames                               |                                                                             | RBS-3531                                                                                             |
| - SRB delay                        |                                                                                                                                                                                                                  | Algorithm1                             |                                                                             | RBS-3532                                                                                             |
| - Power Control Algorithm          |                                                                                                                                                                                                                  | 0 (1dB)                                |                                                                             | RBS-3533                                                                                             |
| - TPC step size                    |                                                                                                                                                                                                                  | 3                                      |                                                                             | RBS-3534                                                                                             |
| - <input type="checkbox"/> ACK     |                                                                                                                                                                                                                  | 3                                      |                                                                             | RBS-3535                                                                                             |
| - <input type="checkbox"/> NACK    |                                                                                                                                                                                                                  | 1                                      |                                                                             | RBS-3536                                                                                             |
| - Ack-Nack repetition factor       |                                                                                                                                                                                                                  | 0                                      |                                                                             | RBS-3537                                                                                             |
| - HARQ_preamble_mode               |                                                                                                                                                                                                                  | Long                                   | Rel-6                                                                       | RBS-3538                                                                                             |
| - Scrambling code type             |                                                                                                                                                                                                                  | 0 (0 to 16777215)                      |                                                                             | RBS-3539                                                                                             |
| - Scrambling code number           |                                                                                                                                                                                                                  | Not Present(1)                         |                                                                             | RBS-3540                                                                                             |
| - Number of DPDCH                  |                                                                                                                                                                                                                  | Reference to clause 6.10 Parameter Set |                                                                             | RBS-3541                                                                                             |
| - spreading factor                 |                                                                                                                                                                                                                  | Reference to clause 6.10 Parameter Set |                                                                             | RBS-3542                                                                                             |
| - TFCI existence                   |                                                                                                                                                                                                                  | Reference to clause 6.10 Parameter Set |                                                                             | RBS-3543                                                                                             |
| - Number of FBI bit                |                                                                                                                                                                                                                  | Reference to clause 6.10 Parameter Set |                                                                             | RBS-3544                                                                                             |
| - Puncturing Limit                 |                                                                                                                                                                                                                  | Reference to clause 6.10 Parameter Set |                                                                             | RBS-3545                                                                                             |
| CHOICE channel requirement         | A5,A6                                                                                                                                                                                                            | Not Present                            | Rel-5 and earlier                                                           | RBS-3546                                                                                             |
| Uplink DPCH info                   | A12, A19, A35                                                                                                                                                                                                    |                                        | Rel-6<br>Rel-7<br>Rel-10                                                    | RBS-3547<br>RBS-3548                                                                                 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition                                                                                                                                                   | Value/remark                                                                                                                                                                                                                                                                                                          | Version | Index    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- Uplink DPCH power control info</li> <li>- DPCCH power offset</li> <li>- PC Preamble</li> <li>- SRB delay</li> <li>- Power Control Algorithm</li> <li>- TPC step size</li> <li>- <input type="checkbox"/> ACK</li> <li>- <input type="checkbox"/> NACK</li> <li>- Ack-Nack repetition factor</li> <li>- HARQ_preamble_mode</li> <li>- Scrambling code type</li> <li>- Scrambling code number</li> <li>- Number of DPDCH</li> <li>- spreading factor</li> <li>- TFCI existence</li> <li>- Number of FBI bit</li> <li>- Puncturing Limit</li> <li>- Number of TPC bits</li> </ul> | A38, A39, A40, A41, A42, A43, A44, A45                                                                                                                      | -40 (-80dB)<br>1 frame<br>7 frames<br>Algorithm1<br>0 (1dB)<br>3<br>3<br>1<br>0<br>Long<br>0 (0 to 16777215)<br>Not Present(1)<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Not Present | Rel-11  | RBS-3549 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3550 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3551 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3552 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3553 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3554 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3556 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3557 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3558 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3559 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3561 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3562 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3564 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3565 |
| Uplink DPCH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A13, A14, A15, A16, A17b, A17c, A17d, A17e, , A17f A19a, A19b, A20, A21, A22, A23, A28a<br><br>, A25, A25b, A26, A27, A27a, A30, A25c<br>A33, A34, A36, A37 |                                                                                                                                                                                                                                                                                                                       | Rel-7   | RBS-3566 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       | Rel-6   | RBS-3567 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       | Rel-7   | RBS-3568 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       | Rel-7   | RBS-3569 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       | Rel-8   | RBS-3570 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       | Rel-8   | RBS-3571 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       | Rel-9   | RBS-3572 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       | Rel-10  | RBS-3573 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       | Rel-7   | RBS-3589 |
| Uplink DPCH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A24, A29                                                                                                                                                    | Not Present                                                                                                                                                                                                                                                                                                           | Rel-7   | RBS-3590 |
| Uplink DPCH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A31, A32                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                       | Rel-9   | RBS-3591 |
| - Uplink DPCH power control info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                       |         | RBS-3592 |
| - DPCCH power offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                             | -40 (-80dB)                                                                                                                                                                                                                                                                                                           |         | RBS-3593 |
| - PC Preamble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                             | 1 frame                                                                                                                                                                                                                                                                                                               |         | RBS-3594 |
| - SRB delay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                             | 7 frames                                                                                                                                                                                                                                                                                                              |         | RBS-3595 |
| - Power Control Algorithm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                             | Algorithm1                                                                                                                                                                                                                                                                                                            |         | RBS-3596 |
| - TPC step size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                             | 0 (1dB)                                                                                                                                                                                                                                                                                                               |         | RBS-3597 |
| - ΔACK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                             | 3                                                                                                                                                                                                                                                                                                                     |         | RBS-3598 |
| - ΔNACK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                             | 3                                                                                                                                                                                                                                                                                                                     |         | RBS-3599 |
| - Ack-Nack repetition factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                             | 1                                                                                                                                                                                                                                                                                                                     |         | RBS-3600 |
| - HARQ_preamble_mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                             | 0                                                                                                                                                                                                                                                                                                                     |         | RBS-3601 |
| - Scrambling code type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                             | Short                                                                                                                                                                                                                                                                                                                 |         | RBS-3602 |
| - Scrambling code number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                             | 0 (0 to 16777215)                                                                                                                                                                                                                                                                                                     |         | RBS-3603 |
| - Number of DPDCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                             | Not Present(1)                                                                                                                                                                                                                                                                                                        |         | RBS-3604 |
| - spreading factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                |         | RBS-3605 |
| - TFCI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                             | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                |         | RBS-3606 |

| Information Element                          | Condition                                      | Value/remark                           | Version | Index    |
|----------------------------------------------|------------------------------------------------|----------------------------------------|---------|----------|
| - Number of FBI bit                          |                                                | Reference to clause 6.10 Parameter Set |         | RBS-3607 |
| - Puncturing Limit                           |                                                | Reference to clause 6.10 Parameter Set |         | RBS-3608 |
| - Number of TPC bits                         |                                                | Not Present                            |         | RBS-3609 |
| E-DCH info                                   | A12, A13, A14, A15, A16                        |                                        | Rel-6   | RBS-3610 |
|                                              | , A17b, A17c, A17d, A17e, , A17f A20, A21, A22 |                                        | Rel-7   | RBS-3611 |
|                                              | , A23                                          |                                        | Rel-7   | RBS-3612 |
|                                              | , A25, A25b, A26, A27, A30                     |                                        | Rel-8   | RBS-3613 |
|                                              | , A25c                                         |                                        | Rel-9   | RBS-3614 |
|                                              | , A33, A34, A35, A36, A37                      |                                        | Rel-10  |          |
|                                              | A38, A39, A40, A41, A42, A43, A44, A45         |                                        | Rel-11  |          |
| - MAC- e/es reset indicator                  |                                                | TRUE                                   |         | RBS-3615 |
| - E-DPCCH info                               |                                                |                                        |         | RBS-3616 |
| - E-DPCCH/DPCCH power offset                 |                                                | 0                                      |         | RBS-3617 |
| - Happy bit delay condition                  |                                                | 100 ms                                 |         | RBS-3618 |
| - E-TFC Boost Info                           |                                                | Not Present                            | Rel-7   | RBS-3619 |
| - E-DPDCH power interpolation                |                                                | Not Present                            | Rel-7   | RBS-3620 |
| - E-DPDCH info                               |                                                |                                        |         | RBS-3621 |
| - E-TFCI table index                         |                                                | 0                                      |         | RBS-3622 |
| - E-DCH minimum set E-TFCI                   |                                                | 9                                      |         | RBS-3623 |
| - Reference E-TFCIs                          |                                                | 2 E-TFCIs                              |         | RBS-3624 |
| - Reference E-TFCI                           |                                                | 11                                     |         | RBS-3625 |
| - Reference E-TFCI PO                        |                                                | 4                                      |         | RBS-3626 |
| - Reference E-TFCI                           |                                                | 83                                     |         | RBS-3627 |
| - Reference E-TFCI PO                        |                                                | 16                                     |         | RBS-3628 |
| - Maximum channelisation codes               |                                                | 2sf4                                   |         | RBS-3629 |
| - PLnon-max                                  |                                                | 0.84                                   |         | RBS-3630 |
| - Scheduling Information                     |                                                |                                        |         | RBS-3631 |
| Configuration                                |                                                |                                        |         |          |
| - Periodicity for Scheduling Info – no grant |                                                | Not present                            |         | RBS-3632 |
| - Periodicity for Scheduling Info – grant    |                                                | Not present                            |         | RBS-3633 |
| - Power Offset for Scheduling Info           |                                                | 0                                      |         | RBS-3634 |
| - 3-Index-Step Threshold                     |                                                | Not present                            |         | RBS-3635 |
| - 2-Index-Step Threshold                     |                                                | Not present                            |         | RBS-3636 |
| - Scheduled Transmission configuration       |                                                |                                        |         | RBS-3637 |
| - 2ms scheduled transmission grant           |                                                | Not present                            |         | RBS-3638 |
| HARQ process allocation                      |                                                |                                        |         |          |
| - Serving Grant                              |                                                | Not present                            |         | RBS-3639 |
| - UL 16QAM settings                          |                                                | Not Present                            | Rel-7   | RBS-3640 |
| E-DCH info                                   | A19                                            |                                        | Rel-7   | RBS-3641 |
|                                              | , A27a                                         |                                        | Rel-8   | RBS-3642 |
| - MAC- e/es reset indicator                  |                                                | TRUE                                   |         | RBS-3643 |
| - E-DPCCH info                               |                                                |                                        |         | RBS-3644 |
| - E-DPCCH/DPCCH power offset                 |                                                | 0                                      |         | RBS-3645 |
| - Happy bit delay condition                  |                                                | 100 ms                                 |         | RBS-3646 |
| - E-TFC Boost Info                           |                                                | Not Present                            | Rel-7   | RBS-3647 |
| - E-DPDCH power interpolation                |                                                | Not Present                            | Rel-7   | RBS-3648 |
| - E-DPDCH info                               |                                                |                                        |         | RBS-3649 |
| - E-TFCI table index                         |                                                | 0                                      |         | RBS-3650 |
| - E-DCH minimum set E-TFCI                   |                                                | 9                                      |         | RBS-3651 |
| - Reference E-TFCIs                          |                                                | 2 E-TFCIs                              |         | RBS-3652 |
| - Reference E-TFCI                           |                                                | 11                                     |         | RBS-3653 |
| - Reference E-TFCI PO                        |                                                | 4                                      |         | RBS-3654 |
| - Reference E-TFCI                           |                                                | 83                                     |         | RBS-3655 |
| - Reference E-TFCI PO                        |                                                | 16                                     |         | RBS-3656 |
| - Maximum channelisation codes               |                                                | 2sf2and2sf4                            |         | RBS-3657 |
| - PLnon-max                                  |                                                | 0.84                                   |         | RBS-3658 |

| Information Element                          | Condition                           | Value/remark                             | Version | Index    |
|----------------------------------------------|-------------------------------------|------------------------------------------|---------|----------|
| - Scheduling Information Configuration       |                                     |                                          |         | RBS-3659 |
| - Periodicity for Scheduling Info – no grant |                                     | Not present                              |         | RBS-3660 |
| - Periodicity for Scheduling Info – grant    |                                     | Not present                              |         | RBS-3661 |
| - Power Offset for Scheduling Info           |                                     | 0                                        |         | RBS-3662 |
| - 3-Index-Step Threshold                     |                                     | Not present                              |         | RBS-3663 |
| - 2-Index-Step Threshold                     |                                     | Not present                              |         | RBS-3664 |
| - Scheduled Transmission configuration       |                                     |                                          |         | RBS-3665 |
| - 2ms scheduled transmission grant           |                                     | Not present                              |         | RBS-3666 |
| HARQ process allocation                      |                                     |                                          |         |          |
| - Serving Grant                              |                                     | Not present                              |         | RBS-3667 |
| -UL 16QAM settings                           |                                     |                                          | Rel-7   | RBS-3668 |
| -BetaEd gain E-AGCH table selection          |                                     | 1                                        |         | RBS-3669 |
| E-DCH info                                   | A19a, A19b                          |                                          | Rel-7   | RBS-3670 |
|                                              |                                     |                                          |         | RBS-3671 |
|                                              |                                     |                                          |         | RBS-3672 |
| - MAC- e/es reset indicator                  |                                     | TRUE                                     |         |          |
| - E-DPCCH info                               |                                     | 0                                        |         |          |
| - E-DPCCH/DPCCH power offset                 |                                     | 100 ms                                   |         |          |
| - Happy bit delay condition                  |                                     | Not Present                              | Rel-7   |          |
| - E-TFC Boost Info                           |                                     | Not Present                              | Rel-7   |          |
| - E-DPDCH power interpolation                |                                     |                                          |         |          |
| - E-DPDCH info                               |                                     |                                          |         |          |
| - E-TFCI table index                         |                                     | 0                                        |         |          |
| - E-DCH minimum set E-TFCI                   |                                     | 10                                       |         |          |
| - Reference E-TFCIs                          |                                     | 3 E-TFCIs                                |         |          |
| - Reference E-TFCI                           |                                     | 105                                      |         |          |
| - Reference E-TFCI PO                        |                                     | 12                                       |         |          |
| - Reference E-TFCI                           |                                     | 116                                      |         |          |
| - Reference E-TFCI PO                        |                                     | 14                                       |         |          |
| - Reference E-TFCI                           |                                     | 127                                      |         |          |
| - Reference E-TFCI PO                        |                                     | 16                                       |         |          |
| - Maximum channelisation codes               |                                     | 2sf2and2sf4                              |         |          |
| - PLnon-max                                  |                                     | 0.84                                     |         |          |
| - Scheduling Information Configuration       |                                     |                                          |         |          |
| - Periodicity for Scheduling Info – no grant |                                     | Not present                              |         |          |
| - Periodicity for Scheduling Info – grant    |                                     | Not present                              |         |          |
| - Power Offset for Scheduling Info           |                                     | 0                                        |         |          |
| - 3-Index-Step Threshold                     |                                     | Not present                              |         |          |
| - 2-Index-Step Threshold                     |                                     | Not present                              |         |          |
| - Scheduled Transmission configuration       |                                     | Not present                              |         |          |
| - 2ms scheduled transmission grant           |                                     | Not present                              |         |          |
| HARQ process allocation                      |                                     |                                          |         |          |
| - Serving Grant                              |                                     | Not present                              | Rel-7   |          |
| -UL 16QAM settings                           |                                     |                                          |         |          |
| -BetaEd gain E-AGCH table selection          |                                     | 1                                        |         |          |
| E-DCH info                                   | A24, A29                            | Not Present                              | Rel-7   | RBS-3673 |
| Uplink secondary cell info FDD               | , A31, A32, A33, A34, A35, A36, A37 | Not Present                              | Rel-8   | RBS-3674 |
|                                              |                                     |                                          | Rel-9   | RBS-3675 |
|                                              |                                     |                                          | Rel-10  |          |
| Uplink secondary cell info FDD               | A25c                                |                                          | Rel-9   | RBS-3676 |
| - Secondary serving E-DCH cell info          |                                     |                                          |         | RBS-3677 |
| - Primary E-RNTI                             |                                     | '1010 1010 1010 1011'                    |         | RBS-3678 |
| - Secondary E-RNTI                           |                                     | Not Present                              |         | RBS-3679 |
| - Secondary E-DCH info common                |                                     |                                          |         | RBS-3680 |
| - Frequency info                             |                                     |                                          |         | RBS-3681 |
| - UARFCN uplink (Nu)                         |                                     | Reference to clause 5.1 Test frequencies |         | RBS-3682 |

| Information Element                                                  | Condition                                                                                             | Value/remark                                                                  | Version                          | Index                                                                                        |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------|
| - UARFCN downlink (Nd)                                               |                                                                                                       | Reference to clause 5.1 Test frequencies                                      |                                  | RBS-3683                                                                                     |
| - Scrambling code type                                               |                                                                                                       | Long                                                                          |                                  | RBS-3684                                                                                     |
| - Scrambling code number                                             |                                                                                                       | 0                                                                             |                                  | RBS-3685                                                                                     |
| - 2ms scheduled transmission grant HARQ process allocation           |                                                                                                       | Not Present                                                                   |                                  | RBS-3686                                                                                     |
| - Serving Grant                                                      |                                                                                                       |                                                                               |                                  | RBS-3687                                                                                     |
| - Primary/Secondary Grant Selector                                   |                                                                                                       | Primary                                                                       |                                  | RBS-3688                                                                                     |
| - Minimum reduced E-DPDCH gain factor.                               |                                                                                                       | 21/15                                                                         |                                  | RBS-3689                                                                                     |
| - E-DCH minimum set E-TFCI                                           |                                                                                                       | 1                                                                             |                                  | RBS-3690                                                                                     |
| - DPCCH Power offset for secondary UL frequency                      |                                                                                                       | 0 dB                                                                          |                                  | RBS-3691                                                                                     |
| - PC Preamble                                                        |                                                                                                       | 0 frame                                                                       |                                  | RBS-3692                                                                                     |
| - Downlink information per radio link list on secondary UL frequency |                                                                                                       |                                                                               |                                  | RBS-3693                                                                                     |
| - Downlink information for each radio link on secondary UL frequency |                                                                                                       | 1                                                                             |                                  | RBS-3694                                                                                     |
| - Primary CPICH info                                                 |                                                                                                       |                                                                               |                                  | RBS-3695                                                                                     |
| - Primary scrambling code                                            |                                                                                                       | Ref. to the Default setting in clause 6.1 (FDD)                               |                                  | RBS-3696                                                                                     |
| - Cell ID                                                            |                                                                                                       | Not Present                                                                   |                                  | RBS-3697                                                                                     |
| - Downlink F-DPCH info for each RL on secondary UL frequency         |                                                                                                       |                                                                               |                                  | RBS-3698                                                                                     |
| - Downlink F-DPCH info for each RL                                   |                                                                                                       |                                                                               |                                  | RBS-3699                                                                                     |
| - Primary CPICH usage for channel estimate                           |                                                                                                       |                                                                               |                                  | RBS-3700                                                                                     |
| - F-DPCH frame offset                                                |                                                                                                       | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |                                  | RBS-3701                                                                                     |
| - F-DPCH slot format                                                 |                                                                                                       | 3 if UE supports enhanced F-DPCH, otherwise Not Present                       |                                  | RBS-3702                                                                                     |
| - Secondary CPICH info                                               |                                                                                                       | Not Present                                                                   |                                  | RBS-3703                                                                                     |
| - Secondary scrambling code                                          |                                                                                                       | Not Present                                                                   |                                  | RBS-3704                                                                                     |
| - Code number                                                        |                                                                                                       | 11                                                                            |                                  | RBS-3705                                                                                     |
| - TPC combination index                                              |                                                                                                       | 0                                                                             |                                  | RBS-3706                                                                                     |
| - STTD indication                                                    |                                                                                                       | Not Present                                                                   |                                  | RBS-3707                                                                                     |
| - E-AGCH Info                                                        |                                                                                                       |                                                                               |                                  | RBS-3708                                                                                     |
| - E-AGCH Channelisation Code                                         |                                                                                                       | 10                                                                            |                                  | RBS-3709                                                                                     |
| - E-HICH Info                                                        |                                                                                                       |                                                                               |                                  | RBS-3710                                                                                     |
| - Channelisation Code                                                |                                                                                                       | 4                                                                             |                                  | RBS-3711                                                                                     |
| - Signature Sequence                                                 |                                                                                                       | 1                                                                             |                                  | RBS-3712                                                                                     |
| - E-RGCH Info                                                        |                                                                                                       |                                                                               |                                  | RBS-3713                                                                                     |
| - Signature Sequence                                                 |                                                                                                       | 0                                                                             |                                  | RBS-3714                                                                                     |
| - RG combination index                                               |                                                                                                       | 0                                                                             |                                  | RBS-3715                                                                                     |
| CHOICE Mode                                                          | A1, A2, A3, A4, A5, A6, A7, A8, A11                                                                   | FDD                                                                           | R99 and Rel-4 only               | RBS-3716                                                                                     |
| - Downlink PDSCH information                                         |                                                                                                       | Not Present                                                                   |                                  | RBS-3717                                                                                     |
| Downlink HS-PDSCH Information                                        | A1, A2, A3, A4, A5, A6, A7, A8, A11                                                                   | Not Present                                                                   | Rel-5                            | RBS-3718                                                                                     |
| Downlink HS-PDSCH Information                                        | A9, A10, A12, A13, A14, A15, A16, A17, A17d, A18, A19, A19a, A19b, A20, A21, A22, A24, A25, A25b, A29 |                                                                               | Rel-5<br>Rel-6<br>Rel-7<br>Rel-8 | RBS-3719<br>RBS-3720<br>RBS-3721<br>RBS-3722<br>RBS-3723<br>RBS-3724<br>RBS-3725<br>RBS-3726 |
| - HS-SCCH Info                                                       |                                                                                                       |                                                                               |                                  |                                                                                              |
| - CHOICE mode                                                        |                                                                                                       |                                                                               |                                  |                                                                                              |
| - DL Scrambling Code                                                 |                                                                                                       |                                                                               |                                  |                                                                                              |
| - HS-SCCH Channelisation                                             |                                                                                                       |                                                                               |                                  |                                                                                              |
| Code Information                                                     |                                                                                                       |                                                                               |                                  |                                                                                              |
| - HS-SCCH Channelisation                                             |                                                                                                       |                                                                               |                                  |                                                                                              |
| Code                                                                 |                                                                                                       | 7                                                                             |                                  | RBS-3727                                                                                     |
| - Measurement Feedback Info                                          |                                                                                                       |                                                                               |                                  |                                                                                              |
| - CHOICE mode                                                        |                                                                                                       | FDD                                                                           |                                  | RBS-3728<br>RBS-3729                                                                         |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Condition                                                 | Value/remark                                                                                                                                            | Version                                           | Index                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- POHsdSch</li> <li>- CQI Feedback cycle, k</li> <li>- CQI repetition factor</li> <li>- <math>\Delta</math>CQI</li> </ul> - CHOICE mode <ul style="list-style-type: none"> <li>- Downlink 64QAM configured</li> <li>- HS-DSCH TB size table</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                           | 6 dB<br>4 ms<br>1<br>5 (corresponds to 0dB in relative power offset)<br>FDD (no data)<br>Not present<br>Not present                                     | Rel-7<br>Rel-7                                    | RBS-3730<br>RBS-3731<br>RBS-3732<br>RBS-3733<br>RBS-3734<br>RBS-3735<br>RBS-3736                                                                                                                         |
| Downlink HS-PDSCH Information <ul style="list-style-type: none"> <li>- HS-SCCH Info</li> <li>- CHOICE mode</li> <li>- DL Scrambling Code</li> <li>- HS-SCCH Channelisation</li> </ul> Code Information <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation</li> </ul> Code <ul style="list-style-type: none"> <li>- Measurement Feedback Info</li> <li>- CHOICE mode</li> <li>- POHsdSch</li> <li>- CQI Feedback cycle, k</li> <li>- CQI repetition factor</li> <li>- <math>\Delta</math>CQI</li> </ul> - CHOICE mode <ul style="list-style-type: none"> <li>- Downlink 64QAM configured</li> <li>- HS-DSCH TB size table</li> </ul>                                                                                 | A25a                                                      | FDD<br>Not present<br>7<br>FDD<br>6 dB<br>4 ms<br>1<br>5 (corresponds to 0dB in relative power offset)<br>FDD (no data)<br>Not present<br>Octet Aligned | Rel-8<br>Rel-7<br>Rel-7                           | RBS-3737<br>RBS-3738<br>RBS-3739<br>RBS-3740<br>RBS-3741<br>RBS-3742<br>RBS-3743<br>RBS-3744<br>RBS-3745<br>RBS-3746<br>RBS-3747<br>RBS-3748<br>RBS-3749<br>RBS-3750<br>RBS-3751                         |
| Downlink HS-PDSCH Information <ul style="list-style-type: none"> <li>- HS-SCCH Info</li> <li>- CHOICE mode</li> <li>- DL Scrambling Code</li> <li>- HS-SCCH Channelisation</li> </ul> Code Information <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation</li> </ul> Code <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation</li> </ul> Code <ul style="list-style-type: none"> <li>- Measurement Feedback Info</li> <li>- CHOICE mode</li> <li>- POHsdSch</li> <li>- CQI Feedback cycle, k</li> <li>- CQI repetition factor</li> <li>- <math>\Delta</math>CQI</li> </ul> - CHOICE mode <ul style="list-style-type: none"> <li>- Downlink 64QAM configured</li> <li>- HS-DSCH TB size table</li> </ul> | A17a, A28                                                 | FDD<br>Not Present<br>4<br>5<br>FDD<br>6 dB<br>4 ms<br>1<br>5 (corresponds to 0dB in relative power offset)<br>FDD<br>TRUE<br>Octet Aligned             | Rel-7<br>Rel-8<br>Rel-7<br>Rel-7                  | RBS-3752<br>RBS-3753<br>RBS-3754<br>RBS-3755<br>RBS-3756<br>RBS-3757<br>RBS-3758<br>RBS-3759<br>RBS-3760<br>RBS-3761<br>RBS-3762<br>RBS-3763<br>RBS-3764<br>RBS-3765<br>RBS-3766<br>RBS-3767<br>RBS-3768 |
| Downlink HS-PDSCH Information <ul style="list-style-type: none"> <li>- HS-SCCH Info</li> <li>- CHOICE mode</li> <li>- DL Scrambling Code</li> <li>- HS-SCCH Channelisation</li> </ul> Code Information <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation</li> </ul> Code <ul style="list-style-type: none"> <li>- Measurement Feedback Info</li> <li>- CHOICE mode</li> <li>- POHsdSch</li> <li>- CQI Feedback cycle, k</li> <li>- CQI repetition factor</li> <li>- <math>\Delta</math>CQI</li> </ul> - CHOICE mode <ul style="list-style-type: none"> <li>- Downlink 64QAM configured</li> <li>- HS-DSCH TB size table</li> </ul>                                                                                 | A17b, A23<br>, A26, A27, A27a, A30<br>A25c, A41, A42, A43 | FDD<br>Not present<br>7<br>FDD<br>6 dB<br>4 ms<br>1<br>5 (corresponds to 0dB in relative power offset)                                                  | Rel-7<br>Rel-7<br>Rel-8<br>Rel-8<br>Rel-9, Rel-11 | RBS-3769<br>RBS-3770<br>RBS-3771<br>RBS-3772<br>RBS-3773<br>RBS-3774<br>RBS-3775<br>RBS-3776<br>RBS-3777<br>RBS-3778<br>RBS-3779<br>RBS-3780<br>RBS-3781<br>RBS-3782                                     |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                               | Condition                                     | Value/remark                                                                                                                                             | Version                   | Index                                                                                                                                                                                                            |
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| - CHOICE mode<br>- Downlink 64QAM configured<br>- HS-DSCH TB size table                                                                                                                                                                                                                                                                                                                                                           |                                               | FDD (no data)<br>Not present<br>Octet Aligned                                                                                                            | Rel-7<br>Rel-7            | RBS-3783<br>RBS-3784<br>RBS-3785                                                                                                                                                                                 |
| Downlink HS-PDSCH Information<br>- HS-SCCH Info<br>- CHOICE mode<br>- DL Scrambling Code<br>- HS-SCCH Channelisation<br>Code Information<br>- HS-SCCH Channelisation<br>Code<br>- HS-SCCH Channelisation<br>Code<br>- Measurement Feedback Info<br>- CHOICE mode<br>- Pohsdsch<br>- CQI Feedback cycle, k<br>- CQI repetition factor<br>- $\Delta$ CQI<br>- CHOICE mode<br>- Downlink 64QAM configured<br>- HS-DSCH TB size table | A17c, A17e, A17f                              | FDD<br>Not Present<br><br>6<br>7<br><br>FDD<br>6 dB<br>4 ms<br>1<br>5 (corresponds to 0dB in relative power offset)<br>FDD<br>TRUE<br>Octet Aligned      | Rel-7                     | RBS-3786<br>RBS-3787<br>RBS-3788<br>RBS-3789<br>RBS-3790<br><br>RBS-3791<br><br>RBS-3792<br><br>RBS-3793<br>RBS-3794<br>RBS-3795<br>RBS-3796<br>RBS-3797<br>RBS-3798<br><br>RBS-3799<br>RBS-3800<br>RBS-3801     |
| Downlink HS-PDSCH Information<br>- HS-SCCH Info<br>- CHOICE mode<br>- DL Scrambling Code<br>- HS-SCCH Channelisation<br>Code Information<br>- HS-SCCH Channelisation<br>Code<br>- HS-SCCH Channelisation<br>Code<br>- Measurement Feedback Info<br>- CHOICE mode<br>- Pohsdsch<br>- CQI Feedback cycle, k<br>- CQI repetition factor<br>- $\Delta$ CQI<br>- CHOICE mode<br>- Downlink 64QAM configured<br>- HS-DSCH TB size table | A28a                                          | FDD<br>Not Present<br><br>4<br>5<br><br>FDD<br>6 dB<br>4 ms<br>1<br>5 (corresponds to 0dB in relative power offset)<br>FDD<br>Not Present<br>Not Present | Rel-7                     | RBS-3802<br>RBS-3803<br>RBS-3804<br>RBS-3805<br>RBS-3806<br><br>RBS-3807<br><br>RBS-3808<br><br>RBS-3809<br>RBS-3810<br>RBS-3811<br>RBS-3812<br>RBS-3813<br>RBS-3814<br><br>RBS-3815<br>RBS-3816<br>RBS-3817     |
| Downlink HS-PDSCH Information<br>- HS-SCCH Info<br>- CHOICE mode<br>- DL Scrambling Code<br>- HS-SCCH Channelisation<br>Code Information<br>- HS-SCCH Channelisation<br>Code<br>- HS-SCCH Channelisation<br>Code<br>- Measurement Feedback Info<br>- CHOICE mode<br>- Pohsdsch<br>- CQI Feedback cycle, k<br>- CQI repetition factor<br>- $\Delta$ CQI<br>- CHOICE mode<br>- Downlink 64QAM configured<br>- HS-DSCH TB size table | A31<br>, A34, A36                             | FDD<br>Not Present<br><br>6<br>7<br><br>FDD<br>8 dB<br>8 ms<br>1<br>4 (corresponds to 0dB in relative power offset)<br>FDD<br>Not Present<br>Not Present | Rel-9<br>Rel-10           | RBS-3818<br><br>RBS-3819<br>RBS-3820<br>RBS-3821<br>RBS-3822<br><br>RBS-3823<br><br>RBS-3824<br><br>RBS-3825<br>RBS-3826<br>RBS-3827<br>RBS-3828<br>RBS-3829<br>RBS-3830<br><br>RBS-3831<br>RBS-3832<br>RBS-3833 |
| Downlink HS-PDSCH Information                                                                                                                                                                                                                                                                                                                                                                                                     | A32<br>, A33, A35, A37<br>A38, A39, A40, A44, |                                                                                                                                                          | Rel-9<br>Rel-10<br>Rel-11 | RBS-3834                                                                                                                                                                                                         |



| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Condition                                                                                                                                                      | Value/remark                                                                                                                                                                                                                                                                                                     | Version                                                      | Index                                                                                                                                                                                                                                                      |
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| <ul style="list-style-type: none"> <li>- HS-SCCH Info</li> <li>- CHOICE mode</li> <li>- DL Scrambling Code</li> <li>- HS-SCCH Channelisation</li> </ul> Code Information <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation</li> </ul> Code <ul style="list-style-type: none"> <li>- Measurement Feedback Info</li> <li>- CHOICE mode</li> <li>- Pohsdsch</li> <li>- CQI Feedback cycle, k</li> <li>- CQI repetition factor</li> <li>- <math>\Delta</math>CQI</li> <li>- CHOICE mode</li> <li>- Downlink 64QAM configured</li> <li>- HS-DSCH TB size table</li> </ul>                                                                                                                  | A45                                                                                                                                                            | FDD<br>Not Present<br><br>Refer to clause 5.5.1.3<br><br>FDD<br>8 dB<br>8 ms<br>1<br>4 (corresponds to 0dB in relative power offset)<br>FDD<br>TRUE<br>Not present                                                                                                                                               |                                                              | RBS-3835<br>RBS-3836<br>RBS-3837<br>RBS-3838<br><br>RBS-3839<br><br>RBS-3840<br>RBS-3841<br>RBS-3842<br>RBS-3843<br>RBS-3844<br>RBS-3845<br><br>RBS-3846<br>RBS-3847<br>RBS-3848                                                                           |
| Downlink information common for all radio links <ul style="list-style-type: none"> <li>- Downlink DPCH info common for all RL</li> <li>- Timing indicator</li> <li>- CFN-targetSFN frame offset</li> <li>- Downlink DPCH power control information</li> <li>- DPC mode</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{\text{Pilot-DPDCH}}</math></li> <li>- DL rate matching restriction information</li> <li>- Spreading factor</li> <li>- Fixed or Flexible Position</li> <li>- TFCI existence</li> <li>- CHOICE SF</li> <li>- CHOICE mode</li> <li>- DPCH compressed mode info</li> <li>- TX Diversity mode</li> <li>- SSDT information</li> <li>- Default DPCH Offset Value</li> </ul> | A1, A2, A3, A11                                                                                                                                                | Maintain<br>Not Present<br><br>0 (single)<br>FDD<br>0<br>Not Present<br><br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>FDD<br>Not Present<br>None<br>Not Present<br><br>Not Present | R99 and Rel-4 only                                           | RBS-3865<br>RBS-3866<br><br>RBS-3867<br>RBS-3868<br>RBS-3869<br><br>RBS-3870<br>RBS-3871<br>RBS-3872<br>RBS-3873<br><br>RBS-3874<br>RBS-3875<br>RBS-3876<br>RBS-3877<br>RBS-3878<br>RBS-3879<br>RBS-3880<br>RBS-3881<br><br>RBS-3882                       |
| Downlink information common for all radio links <ul style="list-style-type: none"> <li>- Downlink DPCH info common for all RL</li> <li>- Timing indicator</li> <li>- CFN-targetSFN frame offset</li> <li>- Downlink DPCH power control information</li> <li>- DPC mode</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{\text{Pilot-DPDCH}}</math></li> <li>- DL rate matching restriction information</li> <li>- Spreading factor</li> <li>- Fixed or Flexible Position</li> <li>- TFCI existence</li> <li>- CHOICE SF</li> <li>- CHOICE mode</li> </ul>                                                                                                                                    | A9<br>, A12, A13, A15<br>, A17, A17a, A17d,<br>A17e, , A17f A18.<br>A19, A19a<br>, A25a, A25b, A26,<br>A28<br>A35<br>A38, A39, A40, A41,<br>A42, A43, A44, A45 | FDD<br>Not Present<br><br>0 (single)<br>FDD<br>0<br>Not Present<br><br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>FDD                                                               | Rel-5<br>Rel-6<br>Rel-7<br><br>Rel-8<br><br>Rel-10<br>Rel-11 | RBS-3883<br>RBS-3884<br>RBS-3885<br><br>RBS-3886<br><br>RBS-3886a<br>RBS-3886b<br><br>RBS-3887<br><br>RBS-3888<br>RBS-3889<br>RBS-3890<br><br>RBS-3891<br>RBS-3892<br>RBS-3893<br>RBS-3894<br><br>RBS-3895<br>RBS-3896<br>RBS-3897<br>RBS-3898<br>RBS-3899 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition                                                                                                                | Value/remark                                                                                                                                                                                                                                                                                                                                           | Version                                                      | Index                                                                                                                                                                                                                |
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| <ul style="list-style-type: none"> <li>- DPCH compressed mode info</li> <li>- TX Diversity mode</li> <li>- Default DPCH Offset Value</li> <li>- MAC-hs reset indicator</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                          | Not Present<br>None<br>Not Present<br>Not Present                                                                                                                                                                                                                                                                                                      |                                                              | RBS-3900<br>RBS-3901<br>RBS-3902<br>RBS-3903                                                                                                                                                                         |
| Downlink information common for all radio links <ul style="list-style-type: none"> <li>- Downlink DPCH info common for all RL</li> <li>- Timing indicator</li> <li>- CFN-targetSFN frame offset</li> <li>- Downlink DPCH power control information</li> <li>- DPC mode</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{\text{Pilot-DPDCH}}</math></li> <li>- DL rate matching restriction information</li> <li>- Spreading factor</li> <li>- Fixed or Flexible Position</li> <li>- TFCI existence</li> <li>- CHOICE SF</li> <li>- CHOICE mode</li> <li>- DPCH compressed mode info</li> <li>- TX Diversity mode</li> <li>- SSDT information</li> </ul>          | A4,A7,A8                                                                                                                 | Initialize<br>Not Present<br><br>0 (single)<br>FDD<br>0<br>Not Present<br><br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>FDD<br>Not Present<br>None<br>Not Present<br><br>Arbitrary set to value 0..306688 by step of 512 | R99 and Rel-4 only                                           | RBS-3904<br>RBS-3905<br>RBS-3906<br>RBS-3907<br>RBS-3908<br>RBS-3909<br>RBS-3910<br>RBS-3911<br>RBS-3912<br>RBS-3913<br>RBS-3914<br>RBS-3915<br>RBS-3916<br>RBS-3917<br>RBS-3918<br>RBS-3919<br>RBS-3920<br>RBS-3921 |
| Downlink information common for all radio links <ul style="list-style-type: none"> <li>- Downlink DPCH info common for all RL</li> <li>- Timing indicator</li> <li>- CFN-targetSFN frame offset</li> <li>- Downlink DPCH power control information</li> <li>- DPC mode</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{\text{Pilot-DPDCH}}</math></li> <li>- DL rate matching restriction information</li> <li>- Spreading factor</li> <li>- Fixed or Flexible Position</li> <li>- TFCI existence</li> <li>- CHOICE SF</li> <li>- CHOICE mode</li> <li>- DPCH compressed mode info</li> <li>- TX Diversity mode</li> <li>- Default DPCH Offset Value</li> </ul> | A10                                                                                                                      | Initialize<br>Not Present<br><br>0 (single)<br>FDD<br>0<br>Not Present<br><br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>FDD<br>Not Present<br>None<br>Arbitrary set to value 0..306688 by step of 512<br>Not Present     | Rel-5                                                        | RBS-3922<br>RBS-3923<br>RBS-3924<br>RBS-3925<br>RBS-3926<br>RBS-3927<br>RBS-3928<br>RBS-3929<br>RBS-3930<br>RBS-3931<br>RBS-3932<br>RBS-3933<br>RBS-3934<br>RBS-3935<br>RBS-3936<br>RBS-3937<br>RBS-3938<br>RBS-3939 |
| Downlink information common for all radio links <ul style="list-style-type: none"> <li>- Downlink F-DPCH info common for all RL</li> <li>- Timing Indication</li> <li>- Timing maintained</li> <li>- Synchronization indicator</li> <li>- Downlink F-DPCH power control information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                          | A14, A16<br>, A17b, A17c, A19b, A20, A21, A22<br>, A23, A28a<br>, A25, A27, A27a<br>A25c, A31, A32<br>A33, A34, A36, A37 | Maintain<br>FALSE                                                                                                                                                                                                                                                                                                                                      | Rel-6<br>Rel-7<br>Rel-7<br>Rel-8<br>Rel-8<br>Rel-9<br>Rel-10 | RBS-3940<br>RBS-3941<br>RBS-3942<br>RBS-3943<br>RBS-3943a<br>RBS-3944<br>RBS-3945<br>RBS-3946<br>RBS-3947                                                                                                            |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Condition                   | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Version                                           | Index                                                                                                                                                                                                                                                                                                |
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| <ul style="list-style-type: none"> <li>- DPC mode</li> <li>- TPC command error rate target</li> <li>- CHOICE mode</li> <li>- DPCH compressed mode info</li> <li>- TX Diversity mode</li> <li>- Default DPCH Offset Value</li> <li>- MAC-hs reset indicator</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                        |                             | 0 (single)<br>0.04<br>FDD<br>Not Present<br>None<br>Not Present<br>Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                   | RBS-3948<br>RBS-3949<br>RBS-3950<br>RBS-3951<br>RBS-3952<br>RBS-3953<br>RBS-3954                                                                                                                                                                                                                     |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A5,A6<br><br>, A24<br>, A29 | Not Present<br><br>Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <br><br>Rel-7                                     | RBS-3955<br><br>RBS-3956<br>RBS-3957                                                                                                                                                                                                                                                                 |
| Downlink information common for all radio links <ul style="list-style-type: none"> <li>- Downlink F-DPCH info common for all RL</li> <li>- Timing Indication</li> <li>- Downlink F-DPCH power control Information</li> <li>- DPC mode</li> <li>- TPC command error rate target</li> <li>- CHOICE mode</li> <li>- DPCH compressed mode info</li> <li>- TX Diversity mode</li> <li>- Default DPCH Offset Value</li> </ul> - MAC-hs reset indicator                                                                                                                                                                                                                             | A30                         | Initialise<br><br><br>0 (single)<br>0.04<br>FDD<br>Not Present<br>None<br>Arbitrary set to value 0..306688 by step of 512<br>TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rel-8                                             | RBS-3957a                                                                                                                                                                                                                                                                                            |
| Downlink information for each radio link list <ul style="list-style-type: none"> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- PDSCH with SHO DCH info</li> <li>- PDSCH code mapping</li> <li>- Serving HS-DSCH radio link indicator</li> <li>- Downlink DPCH info for each RL</li> <li>- Primary CPICH usage for channel estimation</li> <li>- DPCH frame offset</li> <li>- Secondary CPICH info</li> <li>- DL channelisation code</li> <li>- Secondary scrambling code</li> <li>- Spreading factor</li> <li>- Code number</li> <li>- Scrambling code change</li> </ul> | A1, A2, A3, A4, A7, A8, A11 | FDD<br><br>Ref. to the Default setting in clause 6.1 (FDD)<br>Not Present<br><br>Not Present<br><br>FALSE<br><br>Primary CPICH may be used<br><br>Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400<br>Not Present<br><br>1<br>Reference to clause 6.10 Parameter Set 0<br>Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2")<br><br>Set to value Default2: OMIT (otherwise)<br>0<br>Not Present<br><br>Not Present<br><br>Not Present | R99 and Rel-4 only<br>R99 and Rel-4 only<br>Rel-5 | RBS-3958<br><br>RBS-3959<br><br>RBS-3960<br>RBS-3961<br>RBS-3962<br><br>RBS-3963<br><br>RBS-3964<br><br>RBS-3965<br><br>RBS-3966<br>RBS-3967<br><br>RBS-3968<br><br>RBS-3969<br>RBS-3970<br>RBS-3971<br>RBS-3972<br>RBS-3973<br>RBS-3974<br><br>RBS-3975<br>RBS-3976<br><br>RBS-3977<br><br>RBS-3978 |
| Downlink information for each radio link                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A5                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                   | RBS-3979                                                                                                                                                                                                                                                                                             |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Condition                            | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Version                                                                                                                                                                                    | Index                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| list<br>- Downlink information for each radio link<br>link<br>- Choice mode<br>- Primary CPICH info<br>- Primary scrambling code<br>- PDSCH with SHO DCH info<br>- PDSCH code mapping<br>- Serving HS-DSCH radio link indicator<br>- Downlink DPCH info for each RL<br>- SCCPCH information for FACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      | FDD<br><br>Ref. to the Default setting in clause 6.1 (FDD)<br>Not Present<br><br>Not Present<br><br>FALSE<br><br>Not present<br>Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <br><br><br><br>R99 and Rel-4 only<br>R99 and Rel-4 only<br>Rel-5<br><br>R99 and Rel-4 only                                                                                                | RBS-3980<br><br>RBS-3981<br>RBS-3982<br>RBS-3983<br><br>RBS-3984<br>RBS-3985<br>RBS-3986<br><br>RBS-3987<br>RBS-3988                                                                                                                                                                                                                                         |
| Downlink information for each radio link list<br>- Downlink information for each radio link<br>link<br>- Choice mode<br>- Primary CPICH info<br>- Primary scrambling code<br>- PDSCH with SHO DCH info<br>- PDSCH code mapping<br>- Serving HS-DSCH radio link indicator<br>- Serving E-DCH radio link indicator<br>- Downlink DPCH info for each RL<br>- Primary CPICH usage for channel estimation<br>- DPCH frame offset<br>- Secondary CPICH info<br>- DL channelisation code<br>- Secondary scrambling code<br>- Spreading factor<br>- Code number<br>- Scrambling code change<br><br>- TPC combination index<br>- SSDT Cell Identity<br><br>- Closed loop timing adjustment mode<br>- E-AGCH Info<br>- CHOICE E-HICH Information<br>- CHOICE E-RGCH Information<br>- SCCPCH information for FACH | A9, A10<br><br>, A17, A18            | <br><br><br>FDD<br><br>Ref. to the Default setting in clause 6.1 (FDD)<br>Not Present<br><br>Not Present<br><br>TRUE<br><br>FALSE<br><br>Primary CPICH may be used<br><br>Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400<br>Not Present<br><br>1<br>Reference to clause 6.10 Parameter Set 0<br>Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2")<br><br>Set to value Default2: OMIT (otherwise)<br>0<br>Not Present<br><br>Not Present<br><br>Not Present<br>Not Present<br>Not Present<br>Not Present | Rel-5<br><br>Rel-7<br><br><br><br>R99 and Rel-4 only<br>R99 and Rel-4 only<br><br>Rel-6<br><br><br><br><br><br><br>R99 and Rel-4 only<br><br>Rel-6<br>Rel-6<br>Rel-6<br>R99 and Rel-4 only | RBS-3989<br><br>RBS-3990<br>RBS-3991<br><br>RBS-3992<br>RBS-3993<br>RBS-3994<br><br>RBS-3995<br>RBS-3996<br>RBS-3997<br><br>RBS-3998<br><br>RBS-3999<br>RBS-4000<br><br>RBS-4001<br><br>RBS-4002<br>RBS-4003<br>RBS-4004<br>RBS-4005<br>RBS-4006<br>RBS-4007<br><br>RBS-4008<br>RBS-4009<br><br>RBS-4010<br><br>RBS-4011<br>RBS-4012<br>RBS-4013<br>RBS-4014 |
| Downlink information for each radio link list<br>- Downlink information for each radio link                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A17a, A17d, A17e,<br><br>, A25a, A28 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rel-7<br><br>Rel-8                                                                                                                                                                         | RBS-4015<br><br>RBS-4016<br>RBS-4017                                                                                                                                                                                                                                                                                                                         |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Condition                                                                        | Value/remark                                                                  | Version | Index    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- Choice mode</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- Serving HS-DSCH radio link indicator</li> <li>- Serving E-DCH radio link indicator</li> <li>- Downlink DPCH info for each RL</li> <li>- Primary CPICH usage for channel estimation</li> <li>- DPCH frame offset</li> <li>- Secondary CPICH info</li> <li>- DL channelisation code</li> <li>- Secondary scrambling code</li> <li>- Spreading factor</li> <li>- Code number</li> <li>- Scrambling code change</li> <li>- TPC combination index</li> <li>- Closed loop timing adjustment</li> </ul> mode |                                                                                  | FDD                                                                           | Rel-6   | RBS-4018 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Ref. to the Default setting in clause 6.1 (FDD)                               |         | RBS-4019 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | TRUE                                                                          |         | RBS-4020 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | FALSE                                                                         |         | RBS-4021 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Primary CPICH may be used                                                     |         | RBS-4022 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |         | RBS-4023 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Not Present                                                                   |         | RBS-4024 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Not Present                                                                   |         | RBS-4025 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Reference to clause 6.10 Parameter Set 13                                     |         | RBS-4026 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Not Present                                                                   |         | RBS-4027 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | 0                                                                             |         | RBS-4028 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Not Present                                                                   |         | RBS-4029 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Not Present                                                                   |         | RBS-4030 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Not Present                                                                   |         | RBS-4031 |
| <ul style="list-style-type: none"> <li>- E-AGCH Info</li> <li>- CHOICE E-HICH Information</li> <li>- CHOICE E-RGCH Information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A25b                                                                             | Not Present                                                                   | Rel-6   | RBS-4032 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Not Present                                                                   | Rel-6   | RBS-4033 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Not Present                                                                   | Rel-6   | RBS-4034 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                               | Rel-6   | RBS-4035 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                               | Rel-6   | RBS-4036 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                               | Rel-8   | RBS-4037 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                               |         | RBS-4038 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | FDD                                                                           |         | RBS-4039 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Ref. to the Default setting in clause 6.1 (FDD)                               |         | RBS-4040 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | TRUE                                                                          |         | RBS-4041 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | TRUE                                                                          | Rel-6   | RBS-4042 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Primary CPICH may be used                                                     |         | RBS-4043 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |         | RBS-4044 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Not Present                                                                   |         | RBS-4045 |
| <ul style="list-style-type: none"> <li>- Secondary CPICH info</li> <li>- DL channelisation code</li> <li>- Secondary scrambling code</li> <li>- Spreading factor</li> <li>- Code number</li> <li>- Scrambling code change</li> <li>- TPC combination index</li> <li>- Closed loop timing adjustment</li> <li>- E-AGCH Info</li> <li>- E-AGCH Channelisation Code</li> <li>- CHOICE E-HICH Information</li> <li>- Channelisation code</li> <li>- Signature sequence</li> <li>- CHOICE E-RGCH Information</li> <li>- E-RGCH Information</li> <li>- Signature Sequence</li> <li>- RG combination index</li> </ul> mode                    | A25b                                                                             | Not Present                                                                   |         | RBS-4046 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Reference to clause 6.10 Parameter Set 13                                     |         | RBS-4047 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Not Present                                                                   |         | RBS-4048 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | 0                                                                             |         | RBS-4049 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Not Present                                                                   |         | RBS-4050 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Not Present                                                                   |         | RBS-4051 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | 0                                                                             |         | RBS-4052 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | Not Present                                                                   |         | RBS-4053 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | 10                                                                            | Rel-6   | RBS-4054 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | 4                                                                             | Rel-6   | RBS-4055 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | 1                                                                             |         | RBS-4056 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | 0                                                                             |         | RBS-4057 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | 0                                                                             |         | RBS-4058 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | 0                                                                             |         | RBS-4059 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  | 0                                                                             |         | RBS-4060 |
| Downlink information for each radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A12, A13, A15, A17f, A19, A19a, A26, A35, A38, A39, A40, A41, A42, A43, A44, A45 |                                                                               | Rel-6   | RBS-4061 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                               | Rel-7   | RBS-4062 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                               | Rel-8   | RBS-4063 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                               | Rel-10  | RBS-4064 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                               | Rel-11  | RBS-4065 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                  |                                                                               |         | RBS-4066 |

| Information Element                           | Condition      | Value/remark                                                                                                                                                                                                                                | Version        | Index    |
|-----------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| - Downlink information for each radio link    |                |                                                                                                                                                                                                                                             |                | RBS-4067 |
| - Choice mode                                 |                | FDD                                                                                                                                                                                                                                         |                | RBS-4068 |
| - Primary CPICH info                          |                |                                                                                                                                                                                                                                             |                | RBS-4069 |
| - Primary scrambling code                     |                | Ref. to the Default setting in clause 6.1 (FDD)                                                                                                                                                                                             |                | RBS-4070 |
| - Serving HS-DSCH radio link indicator        |                | TRUE                                                                                                                                                                                                                                        |                | RBS-4071 |
| - Serving E-DCH radio link indicator          |                | TRUE                                                                                                                                                                                                                                        |                | RBS-4072 |
| - Downlink DPCH info for each RL              |                |                                                                                                                                                                                                                                             |                | RBS-4073 |
| - Primary CPICH usage for channel estimation  |                | Primary CPICH may be used                                                                                                                                                                                                                   |                | RBS-4074 |
| - DPCH frame offset                           |                | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400                                                                                                                                                               |                | RBS-4075 |
| - Secondary CPICH info                        |                | Not Present                                                                                                                                                                                                                                 |                | RBS-4076 |
| - DL channelisation code                      |                |                                                                                                                                                                                                                                             |                | RBS-4077 |
| - Secondary scrambling code                   |                | 1                                                                                                                                                                                                                                           |                | RBS-4078 |
| - Spreading factor                            |                | Reference to clause 6.10 Parameter Set 0                                                                                                                                                                                                    |                | RBS-4079 |
| - Code number                                 |                | Set to value: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") | Default1       | RBS-4080 |
| - Scrambling code change                      |                |                                                                                                                                                                                                                                             |                | RBS-4081 |
| - TPC combination index                       |                | Set to value: OMIT (otherwise)                                                                                                                                                                                                              | Default2       | RBS-4082 |
| - Closed loop timing adjustment               |                | 0                                                                                                                                                                                                                                           |                | RBS-4083 |
| - E-AGCH Info                                 |                | Not Present                                                                                                                                                                                                                                 |                | RBS-4084 |
| - E-AGCH Channelisation Code                  |                | 10                                                                                                                                                                                                                                          |                | RBS-4085 |
| - CHOICE E-HICH Information                   |                |                                                                                                                                                                                                                                             |                | RBS-4086 |
| - E-HICH Information                          |                |                                                                                                                                                                                                                                             |                | RBS-4087 |
| - Channelisation code                         |                | 4                                                                                                                                                                                                                                           |                | RBS-4088 |
| - Signature sequence                          |                | 1                                                                                                                                                                                                                                           |                | RBS-4089 |
| - CHOICE E-RGCH Information                   |                |                                                                                                                                                                                                                                             |                | RBS-4090 |
| - E-RGCH Information                          |                |                                                                                                                                                                                                                                             |                | RBS-4091 |
| - Signature Sequence                          |                | 0                                                                                                                                                                                                                                           |                | RBS-4092 |
| - RG combination index                        |                | 0                                                                                                                                                                                                                                           |                | RBS-4093 |
| Downlink information for each radio link list | A14, A16, A19b |                                                                                                                                                                                                                                             | Rel-6<br>Rel-7 | RBS-4094 |
| - Downlink information for each radio link    |                |                                                                                                                                                                                                                                             |                | RBS-4095 |
| - Choice mode                                 |                | FDD                                                                                                                                                                                                                                         |                | RBS-4096 |
| - Primary CPICH info                          |                |                                                                                                                                                                                                                                             |                | RBS-4097 |
| - Primary scrambling code                     |                | Ref. to the Default setting in clause 6.1 (FDD)                                                                                                                                                                                             |                | RBS-4098 |
| - Serving HS-DSCH radio link indicator        |                | TRUE                                                                                                                                                                                                                                        |                | RBS-4099 |
| - Serving E-DCH radio link indicator          |                | TRUE                                                                                                                                                                                                                                        |                | RBS-4100 |
| - Downlink DPCH info for each RL              |                | Not Present                                                                                                                                                                                                                                 |                | RBS-4101 |
| - Downlink F-DPCH info for each RL            |                |                                                                                                                                                                                                                                             |                | RBS-4102 |
| - Primary CPICH usage for channel estimation  |                | Primary CPICH may be used                                                                                                                                                                                                                   |                | RBS-4103 |
| - F-DPCH frame offset                         |                | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400                                                                                                                                                               |                | RBS-4104 |
| - F-DPCH slot format                          |                | 3 if UE supports enhanced F-DPCH, otherwise Not Present                                                                                                                                                                                     | Rel-7          | RBS-4105 |
| - Secondary CPICH info                        |                | Not Present                                                                                                                                                                                                                                 |                | RBS-4106 |
| - Secondary scrambling code                   |                | Not Present                                                                                                                                                                                                                                 |                | RBS-4107 |
| - Code number                                 |                | 12                                                                                                                                                                                                                                          |                | RBS-4108 |
| - TPC combination index                       |                | 0                                                                                                                                                                                                                                           |                | RBS-4109 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Condition                | Value/remark                                                                                                                                                                                                                                                                                                                                                       | Version        | Index                                                                                                                                                                                                                                                                                                                |
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| <ul style="list-style-type: none"> <li>- E-AGCH Info</li> <li>- E-AGCH Channelisation Code</li> <li>- CHOICE E-HICH Information</li> <li>- E-HICH Information</li> <li>- Channelisation code</li> <li>- Signature sequence</li> <li>- CHOICE E-RGCH Information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          | 10<br><br><br><br>4<br>1<br>Not Present                                                                                                                                                                                                                                                                                                                            |                | RBS-4110<br>RBS-4111<br>RBS-4112<br>RBS-4113<br>RBS-4114<br>RBS-4115<br>RBS-4116                                                                                                                                                                                                                                     |
| Downlink information for each radio link list<br><ul style="list-style-type: none"> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- Serving HS-DSCH radio link indicator</li> <li>- Serving E-DCH radio link indicator</li> <li>- Downlink DPCH info for each RL</li> <li>- Downlink F-DPCH info for each RL</li> <li>- Primary CPICH usage for channel estimation</li> <li>- F-DPCH frame offset</li> <li>- F-DPCH slot format</li> <li>- Secondary CPICH info</li> <li>- Secondary scrambling code</li> <li>- Code number</li> <li>- TPC combination index</li> <li>- E-AGCH Info</li> <li>- E-AGCH Channelisation Code</li> <li>- CHOICE E-HICH Information</li> <li>- E-HICH Information</li> <li>- Channelisation code</li> <li>- Signature sequence</li> <li>- CHOICE E-RGCH Information</li> </ul> | A17b, A17c, A28a<br>A25c | FDD<br><br>Ref. to the Default setting in clause 6.1 (FDD)<br>TRUE<br><br>TRUE<br><br>Not Present<br><br>Primary CPICH may be used<br><br>Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400<br>3 if UE supports enhanced F-DPCH, otherwise Not Present<br>Not Present<br>Not Present<br>11<br>0<br><br>10<br><br>4<br>1<br>Not Present | Rel-7<br>Rel-9 | RBS-4117<br><br>RBS-4118<br><br>RBS-4119<br>RBS-4120<br>RBS-4121<br>RBS-4122<br>RBS-4123<br><br>RBS-4124<br>RBS-4125<br><br>RBS-4126<br><br>RBS-4127<br>RBS-4128<br><br>RBS-4129<br>RBS-4130<br>RBS-4131<br>RBS-4132<br>RBS-4133<br>RBS-4134<br>RBS-4135<br>RBS-4136<br>RBS-4137<br>RBS-4138<br>RBS-4139<br>RBS-4140 |
| Downlink information for each radio link list<br><ul style="list-style-type: none"> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- Serving HS-DSCH radio link indicator</li> <li>- Serving E-DCH radio link indicator</li> <li>- Downlink DPCH info for each RL</li> <li>- Downlink F-DPCH info for each RL</li> <li>- Primary CPICH usage for channel estimation</li> <li>- F-DPCH frame offset</li> <li>- F-DPCH slot format</li> <li>- Secondary CPICH info</li> <li>- Secondary scrambling code</li> <li>- Code number</li> <li>- TPC combination index</li> <li>- E-AGCH Info</li> <li>- E-AGCH Channelisation Code</li> </ul>                                                                                                                                                                      | A30                      | FDD<br><br>Ref. to the Default setting in clause 6.1 (FDD)<br>TRUE<br><br>TRUE<br><br>Not Present<br><br>Primary CPICH may be used<br><br>Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400<br>3 if UE supports enhanced F-DPCH, otherwise Not Present<br>Not Present<br>Not Present<br>12<br>0<br><br>11                              | Rel-8          | RBS-4141<br><br>RBS-4142<br><br>RBS-4143<br>RBS-4144<br>RBS-4145<br>RBS-4146<br>RBS-4147<br><br>RBS-4148<br>RBS-4149<br><br>RBS-4150<br><br>RBS-4151<br>RBS-4152<br><br>RBS-4153<br>RBS-4154<br>RBS-4155<br>RBS-4156<br>RBS-4157<br>RBS-4158                                                                         |

| Information Element                                                                                                                                                                                           | Condition                                                       | Value/remark                                                                  | Version | Index                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|---------|----------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- CHOICE E-HICH Information</li> <li>- E-HICH Information</li> <li>- Channelisation code</li> <li>- Signature sequence</li> <li>- CHOICE E-RGCH Information</li> </ul> |                                                                 | 4<br>10<br>Not Present                                                        |         | RBS-4159<br>RBS-4160<br>RBS-4161<br>RBS-4162<br>RBS-4163 |
| Downlink information for each radio link list                                                                                                                                                                 | A20, A21,<br><br>A23<br><br>A25<br>A27, A27a<br>A31<br>A34, A36 |                                                                               | Rel-7   | RBS-4164                                                 |
|                                                                                                                                                                                                               |                                                                 |                                                                               | Rel-7   | RBS-4165                                                 |
|                                                                                                                                                                                                               |                                                                 |                                                                               | Rel-8   |                                                          |
|                                                                                                                                                                                                               |                                                                 |                                                                               | Rel-8   | RBS-4166                                                 |
|                                                                                                                                                                                                               |                                                                 |                                                                               | Rel-8   | RBS-4167                                                 |
|                                                                                                                                                                                                               |                                                                 |                                                                               | Rel-9   | RBS-4168                                                 |
|                                                                                                                                                                                                               |                                                                 |                                                                               | Rel-10  |                                                          |
| - Downlink information for each radio link                                                                                                                                                                    |                                                                 |                                                                               |         | RBS-4169                                                 |
| - Choice mode                                                                                                                                                                                                 |                                                                 | FDD                                                                           |         | RBS-4170                                                 |
| - Primary CPICH info                                                                                                                                                                                          |                                                                 |                                                                               |         | RBS-4171                                                 |
| - Primary scrambling code                                                                                                                                                                                     |                                                                 | Ref. to the Default setting in clause 6.1 (FDD)                               |         | RBS-4172                                                 |
| - Serving HS-DSCH radio link indicator                                                                                                                                                                        |                                                                 | TRUE                                                                          |         | RBS-4173                                                 |
| - Serving E-DCH radio link indicator                                                                                                                                                                          |                                                                 | TRUE                                                                          |         | RBS-4174                                                 |
| - Downlink DPCH info for each RL                                                                                                                                                                              |                                                                 | Not Present                                                                   |         | RBS-4175                                                 |
| - Downlink F-DPCH info for each RL                                                                                                                                                                            |                                                                 |                                                                               |         | RBS-4176                                                 |
| - Primary CPICH usage for channel estimation                                                                                                                                                                  |                                                                 | Primary CPICH may be used                                                     |         | RBS-4177                                                 |
| - F-DPCH frame offset                                                                                                                                                                                         |                                                                 | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |         | RBS-4178                                                 |
| - F-DPCH slot format                                                                                                                                                                                          |                                                                 | 3 if UE supports enhanced F-DPCH, otherwise Not Present                       | Rel-7   | RBS-4179                                                 |
| - Secondary CPICH info                                                                                                                                                                                        |                                                                 | Not Present                                                                   |         | RBS-4180                                                 |
| - Secondary scrambling code                                                                                                                                                                                   |                                                                 | Not Present                                                                   |         | RBS-4181                                                 |
| - Code number                                                                                                                                                                                                 |                                                                 | 12                                                                            |         | RBS-4182                                                 |
| - TPC combination index                                                                                                                                                                                       |                                                                 | 0                                                                             |         | RBS-4183                                                 |
| - E-AGCH Info                                                                                                                                                                                                 |                                                                 |                                                                               |         | RBS-4184                                                 |
| - E-AGCH Channelisation Code                                                                                                                                                                                  |                                                                 | 10                                                                            |         | RBS-4185                                                 |
| - CHOICE E-HICH Information                                                                                                                                                                                   |                                                                 |                                                                               |         | RBS-4186                                                 |
| - E-HICH Information                                                                                                                                                                                          |                                                                 |                                                                               |         | RBS-4187                                                 |
| - Channelisation code                                                                                                                                                                                         |                                                                 | 4                                                                             |         | RBS-4188                                                 |
| - Signature sequence                                                                                                                                                                                          |                                                                 | 1                                                                             |         | RBS-4189                                                 |
| - CHOICE E-RGCH Information                                                                                                                                                                                   |                                                                 |                                                                               |         | RBS-4190                                                 |
| - E-RGCH Information                                                                                                                                                                                          |                                                                 |                                                                               |         | RBS-4191                                                 |
| - Signature Sequence                                                                                                                                                                                          |                                                                 | 0                                                                             |         | RBS-4192                                                 |
| - RG combination index                                                                                                                                                                                        |                                                                 | 0                                                                             |         | RBS-4193                                                 |
| Downlink information for each radio link list                                                                                                                                                                 | A22                                                             |                                                                               | Rel-7   | RBS-4194                                                 |
| - Downlink information for each radio link                                                                                                                                                                    |                                                                 |                                                                               |         | RBS-4195                                                 |
| - Choice mode                                                                                                                                                                                                 |                                                                 | FDD                                                                           |         | RBS-4196                                                 |
| - Primary CPICH info                                                                                                                                                                                          |                                                                 |                                                                               |         | RBS-4197                                                 |
| - Primary scrambling code                                                                                                                                                                                     |                                                                 | Ref. to the Default setting in clause 6.1 (FDD)                               |         | RBS-4198                                                 |
| - Serving HS-DSCH radio link indicator                                                                                                                                                                        |                                                                 | TRUE                                                                          |         | RBS-4199                                                 |
| - Serving E-DCH radio link indicator                                                                                                                                                                          |                                                                 | TRUE                                                                          |         | RBS-4200                                                 |
| - Downlink DPCH info for each RL                                                                                                                                                                              |                                                                 | Not Present                                                                   |         | RBS-4201                                                 |
| - Downlink F-DPCH info for each RL                                                                                                                                                                            |                                                                 |                                                                               |         | RBS-4202                                                 |
| - Primary CPICH usage for channel estimation                                                                                                                                                                  |                                                                 | Primary CPICH may be used                                                     |         | RBS-4203                                                 |
| - F-DPCH frame offset                                                                                                                                                                                         |                                                                 | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |         | RBS-4204                                                 |
| - F-DPCH slot format                                                                                                                                                                                          |                                                                 | 3 if UE supports enhanced F-DPCH, otherwise Not Present                       | Rel-7   | RBS-4205                                                 |



| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Condition             | Value/remark                                                                  | Version                  | Index    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------|--------------------------|----------|
| <ul style="list-style-type: none"> <li>- Secondary CPICH info</li> <li>- Secondary scrambling code</li> <li>- Code number</li> <li>- TPC combination index</li> <li>- E-AGCH Info</li> <li>- E-AGCH Channelisation Code</li> <li>- CHOICE E-HICH Information</li> <li>- E-HICH Information</li> <li>- Channelisation code</li> <li>- Signature sequence</li> <li>- CHOICE E-RGCH Information</li> <li>- E-RGCH Information</li> </ul> - Downlink information for each radio link                                                                                                                                                 | A32, A33, A37         | Not Present                                                                   | Rel-10                   | RBS-4206 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Not Present                                                                   |                          | RBS-4207 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 12                                                                            |                          | RBS-4208 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 0                                                                             |                          | RBS-4209 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4210 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 10                                                                            |                          | RBS-4211 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4212 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4213 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 4                                                                             |                          | RBS-4214 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 1                                                                             |                          | RBS-4215 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4216 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Not present                                                                   |                          | RBS-4217 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4218 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | FDD                                                                           |                          | RBS-4219 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4220 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Ref. to the Default setting in clause 6.1 (FDD)                               |                          | RBS-4221 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | TRUE                                                                          |                          | RBS-4222 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | TRUE                                                                          |                          | RBS-4223 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Not Present                                                                   |                          | RBS-4224 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4225 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Primary CPICH may be used                                                     | Rel-7                    | RBS-4226 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |                          | RBS-4227 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 3 if UE supports enhanced F-DPCH, otherwise Not Present                       |                          | RBS-4228 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Not Present                                                                   |                          | RBS-4229 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Not Present                                                                   |                          | RBS-4230 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 11                                                                            |                          | RBS-4231 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 0                                                                             |                          | RBS-4232 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4233 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 10                                                                            |                          | RBS-4234 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4235 |
| - Serving HS-DSCH radio link indicator<br>- Serving E-DCH radio link indicator<br>- Downlink DPCH info for each RL<br>- Downlink F-DPCH info for each RL<br>- Primary CPICH usage for channel estimation<br>- F-DPCH frame offset<br>- F-DPCH slot format<br>- Secondary CPICH info<br>- Secondary scrambling code<br>- Code number<br>- TPC combination index<br>- E-AGCH Info<br>- E-AGCH Channelisation Code<br>- CHOICE E-HICH Information<br>- E-HICH Information<br>- Channelisation code<br>- Signature sequence<br>- CHOICE E-RGCH Information<br>- E-RGCH Information<br>- Signature Sequence<br>- RG combination index |                       | 4                                                                             |                          | RBS-4236 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 1                                                                             |                          | RBS-4237 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4238 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4239 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4240 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 0                                                                             |                          | RBS-4241 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 0                                                                             |                          | RBS-4242 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          |          |
| Downlink information for each radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A6, A24               | Not Present                                                                   |                          | RBS-4243 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A29                   |                                                                               |                          | RBS-4244 |
| Downlink secondary cell info FDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A25a<br>A25c<br>, A36 | New configuration<br>'1010 1010 1010 1010'                                    | Rel-8<br>Rel-9<br>Rel-10 | RBS-4245 |
| - CHOICE Configuration info<br>- New H-RNTI<br>- Downlink 64QAM configured<br>- HS-DSCH TB size table<br>- Primary CPICH info<br>- Primary scrambling code<br>- DL Scrambling Code<br>- HS-SCCH Channelisation Code Information<br>- HS-SCCH Channelisation Code<br>- Measurement Power Offset<br>- UARFCN downlink (Nd)                                                                                                                                                                                                                                                                                                         |                       | Not Present                                                                   |                          | RBS-4246 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Octet Aligned                                                                 |                          | RBS-4247 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4248 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Ref. to the Default setting in clause 6.1 (FDD)                               |                          | RBS-4249 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Not Present                                                                   |                          | RBS-4250 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4251 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4252 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                               |                          | RBS-4253 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 7                                                                             |                          | RBS-4254 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | 6 dB                                                                          |                          | RBS-4255 |
| - Different Tx diversity mode configuration from serving HS-DSCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       | Reference to clause 5.1 Test frequencies                                      |                          | RBS-4256 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Not Present                                                                   | Rel-8                    | RBS-4257 |

| Information Element                                                   | Condition | Value/remark                                    | Version         | Index    |
|-----------------------------------------------------------------------|-----------|-------------------------------------------------|-----------------|----------|
| cell                                                                  |           |                                                 |                 |          |
| -Secondary cell MIMO parameters                                       |           | Not Present                                     | Rel-9           | RBS-4258 |
| Downlink secondary cell info FDD                                      | A25, A25b |                                                 | Rel-8           | RBS-4259 |
| - CHOICE Configuration info                                           |           | New configuration                               |                 | RBS-4260 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |                 | RBS-4261 |
| - Downlink 64QAM configured                                           |           | Not Present                                     |                 | RBS-4262 |
| - HS-DSCH TB size table                                               |           | Not Present                                     |                 | RBS-4263 |
| - Primary CPICH info                                                  |           |                                                 |                 | RBS-4264 |
| - Primary scrambling code                                             |           |                                                 |                 | RBS-4265 |
| - DL Scrambling Code                                                  |           | Ref. to the Default setting in clause 6.1 (FDD) |                 | RBS-4266 |
| - HS-SCCH Channelisation Code                                         |           | Not Present                                     |                 | RBS-4267 |
| Information                                                           |           |                                                 |                 | RBS-4268 |
| - HS-SCCH Channelisation Code                                         |           | 7                                               |                 | RBS-4269 |
| - Measurement Power Offset                                            |           | 6 dB                                            |                 | RBS-4270 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |                 | RBS-4271 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8           | RBS-4272 |
| -Secondary cell MIMO parameters                                       |           | Not Present                                     | Rel-9           | RBS-4273 |
| Downlink secondary cell info FDD                                      | A31, A34  |                                                 | Rel-9<br>Rel-10 | RBS-4274 |
| - CHOICE Configuration info                                           |           | New configuration                               |                 | RBS-4275 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |                 | RBS-4276 |
| - Downlink 64QAM configured                                           |           | Not Present                                     |                 | RBS-4277 |
| - HS-DSCH TB size table                                               |           | Not Present                                     |                 | RBS-4278 |
| - Primary CPICH info                                                  |           |                                                 |                 | RBS-4279 |
| - Primary scrambling code                                             |           |                                                 |                 | RBS-4280 |
| - DL Scrambling Code                                                  |           | Ref. to the Default setting in clause 6.1 (FDD) |                 | RBS-4281 |
| - HS-SCCH Channelisation Code                                         |           | Not Present                                     |                 | RBS-4282 |
| Information                                                           |           |                                                 |                 | RBS-4283 |
| - HS-SCCH Channelisation Code                                         |           | 7                                               |                 | RBS-4284 |
| - Measurement Power Offset                                            |           | 6 dB                                            |                 | RBS-4285 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |                 | RBS-4286 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8           | RBS-4287 |
| -Secondary cell MIMO parameters                                       |           |                                                 | Rel-9           | RBS-4288 |
| - CHOICE Configuration info                                           |           |                                                 |                 | RBS-4289 |
| - Continue                                                            |           |                                                 |                 | RBS-4290 |
| - New configuration                                                   |           |                                                 |                 | RBS-4291 |
| - MIMO N_cqi_typeA/M_cqi ratio                                        |           | 1/1                                             |                 | RBS-4292 |
| - MIMO pilot configuration                                            |           |                                                 |                 | RBS-4293 |
| -CHOICE Second CPICH pattern                                          |           |                                                 |                 | RBS-4294 |
| -Antenna2 P-CPICH                                                     |           | No data                                         |                 | RBS-4295 |
| -Antenna1 S-CPICH                                                     |           |                                                 |                 | RBS-4296 |
| -Channelisation code                                                  |           | 13                                              |                 | RBS-4297 |
| -Power Offset for S-CPICH                                             |           | 0                                               |                 | RBS-4298 |
| for MIMO                                                              |           |                                                 |                 |          |
| Downlink secondary cell info FDD                                      | A32, A33  |                                                 | Rel-9<br>Rel-10 | RBS-4299 |
| - CHOICE Configuration info                                           |           | New configuration                               |                 | RBS-4300 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |                 | RBS-4301 |
| - Downlink 64QAM configured                                           |           | TRUE                                            |                 | RBS-4302 |
| - HS-DSCH TB size table                                               |           | Not present                                     |                 | RBS-4303 |
| - Primary CPICH info                                                  |           |                                                 |                 | RBS-4304 |
| - Primary scrambling code                                             |           |                                                 |                 | RBS-4305 |
| - DL Scrambling Code                                                  |           | Ref. to the Default setting in clause 6.1 (FDD) |                 | RBS-4306 |
| - HS-SCCH Channelisation Code                                         |           | Not Present                                     |                 | RBS-4307 |
| Information                                                           |           |                                                 |                 |          |
| - HS-SCCH Channelisation Code                                         |           | 6                                               |                 | RBS-4308 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Condition     | Value/remark                             | Version | Index    |
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| <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation Code</li> <li>- Measurement Power Offset</li> <li>- UARFCN downlink (Nd)</li> <li>- Different Tx diversity mode configuration from serving HS-DSCH cell</li> <li>- Secondary cell MIMO parameters</li> <li>- CHOICE Configuration info <ul style="list-style-type: none"> <li>- Continue</li> <li>- New configuration <ul style="list-style-type: none"> <li>- MIMO N_cqi_typeA/M_cqi ratio</li> <li>- MIMO pilot configuration</li> <li>-CHOICE Second CPICH pattern</li> </ul> </li> <li>-Antenna2 P-CPICH</li> <li>-Antenna1 S-CPICH</li> <li>-Channelisation code</li> </ul> </li> </ul>                                 |               | 7                                        | Rel-8   | RBS-4309 |
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| <ul style="list-style-type: none"> <li>- Downlink secondary cell info FDD</li> <li>- CHOICE Configuration info <ul style="list-style-type: none"> <li>- New H-RNTI</li> <li>- Downlink 64QAM configured</li> <li>- HS-DSCH TB size table</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- DL Scrambling Code</li> <li>- HS-SCCH Channelisation Code Information <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation Code</li> <li>- HS-SCCH Channelisation Code</li> </ul> </li> <li>- Measurement Power Offset</li> <li>- UARFCN downlink (Nd)</li> <li>- Different Tx diversity mode configuration from serving HS-DSCH cell</li> </ul> </li> </ul> | A35, A37      |                                          | Rel-10  | RBS-4317 |
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| <ul style="list-style-type: none"> <li>- Secondary cell MIMO parameters</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                                          | Rel-9   | RBS-4327 |
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| <ul style="list-style-type: none"> <li>- Downlink secondary cell info FDD</li> <li>- CHOICE Configuration info <ul style="list-style-type: none"> <li>- New H-RNTI</li> <li>- Downlink 64QAM configured</li> <li>- HS-DSCH TB size table</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- DL Scrambling Code</li> <li>- HS-SCCH Channelisation Code Information <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation Code</li> <li>- HS-SCCH Channelisation Code</li> </ul> </li> <li>- Measurement Power Offset</li> <li>- UARFCN downlink (Nd)</li> <li>- Different Tx diversity mode configuration from serving HS-DSCH cell</li> </ul> </li> </ul> | A35, A37      | New configuration                        | Rel-10  | RBS-4332 |
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| <ul style="list-style-type: none"> <li>- Secondary cell MIMO parameters</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                                          | Rel-8   | RBS-4336 |
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| <ul style="list-style-type: none"> <li>- Downlink secondary cell info FDD</li> <li>- CHOICE Configuration info <ul style="list-style-type: none"> <li>- New H-RNTI</li> <li>- Downlink 64QAM configured</li> <li>- HS-DSCH TB size table</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- DL Scrambling Code</li> <li>- HS-SCCH Channelisation Code Information <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation Code</li> <li>- HS-SCCH Channelisation Code</li> </ul> </li> <li>- Measurement Power Offset</li> <li>- UARFCN downlink (Nd)</li> <li>- Different Tx diversity mode configuration from serving HS-DSCH cell</li> </ul> </li> </ul> | A38, A39, A40 |                                          | Rel-11  | RBS-4337 |
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| <ul style="list-style-type: none"> <li>- Secondary cell MIMO parameters</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                                          | Rel-9   | RBS-4347 |
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| <ul style="list-style-type: none"> <li>- Downlink secondary cell info FDD</li> <li>- CHOICE Configuration info <ul style="list-style-type: none"> <li>- New H-RNTI</li> <li>- Downlink 64QAM configured</li> <li>- HS-DSCH TB size table</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- DL Scrambling Code</li> <li>- HS-SCCH Channelisation Code Information <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation Code</li> <li>- HS-SCCH Channelisation Code</li> </ul> </li> <li>- Measurement Power Offset</li> <li>- UARFCN downlink (Nd)</li> <li>- Different Tx diversity mode configuration from serving HS-DSCH cell</li> </ul> </li> </ul> | A39, A40      |                                          | Rel-11  | RBS-4351 |
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| <ul style="list-style-type: none"> <li>- Downlink secondary cell info FDD</li> <li>- CHOICE Configuration info <ul style="list-style-type: none"> <li>- New H-RNTI</li> <li>- Downlink 64QAM configured</li> <li>- HS-DSCH TB size table</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- DL Scrambling Code</li> <li>- HS-SCCH Channelisation Code Information <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation Code</li> <li>- HS-SCCH Channelisation Code</li> </ul> </li> <li>- Measurement Power Offset</li> <li>- UARFCN downlink (Nd)</li> <li>- Different Tx diversity mode configuration from serving HS-DSCH cell</li> </ul> </li> </ul> | A39, A40      |                                          | Rel-11  | RBS-4360 |
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| <ul style="list-style-type: none"> <li>- Downlink secondary cell info FDD</li> <li>- CHOICE Configuration info <ul style="list-style-type: none"> <li>- New H-RNTI</li> <li>- Downlink 64QAM configured</li> <li>- HS-DSCH TB size table</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- DL Scrambling Code</li> <li>- HS-SCCH Channelisation Code Information <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation Code</li> <li>- HS-SCCH Channelisation Code</li> </ul> </li> <li>- Measurement Power Offset</li> <li>- UARFCN downlink (Nd)</li> <li>- Different Tx diversity mode configuration from serving HS-DSCH cell</li> </ul> </li> </ul> | A39, A40      |                                          | Rel-11  | RBS-4370 |
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| <ul style="list-style-type: none"> <li>- Downlink secondary cell info FDD</li> <li>- CHOICE Configuration info <ul style="list-style-type: none"> <li>- New H-RNTI</li> <li>- Downlink 64QAM configured</li> <li>- HS-DSCH TB size table</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- DL Scrambling Code</li> <li>- HS-SCCH Channelisation Code Information <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation Code</li> <li>- HS-SCCH Channelisation Code</li> </ul> </li> <li>- Measurement Power Offset</li> <li>- UARFCN downlink (Nd)</li> <li>- Different Tx diversity mode configuration from serving HS-DSCH cell</li> </ul> </li> </ul> | A39, A40      |                                          | Rel-11  | RBS-4380 |
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| <ul style="list-style-type: none"> <li>- Downlink secondary cell info FDD</li> <li>- CHOICE Configuration info <ul style="list-style-type: none"> <li>- New H-RNTI</li> <li>- Downlink 64QAM configured</li> <li>- HS-DSCH TB size table</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- DL Scrambling Code</li> <li>- HS-SCCH Channelisation Code Information <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation Code</li> <li>- HS-SCCH Channelisation Code</li> </ul> </li> <li>- Measurement Power Offset</li> <li>- UARFCN downlink (Nd)</li> <li>- Different Tx diversity mode configuration from serving HS-DSCH cell</li> </ul> </li> </ul> | A39, A40      |                                          | Rel-11  | RBS-4390 |
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| Information Element                                                   | Condition     | Value/remark                                    | Version | Index    |
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| - Downlink 64QAM configured                                           |               | True                                            |         | RBS-4360 |
| - HS-DSCH TB size table                                               |               | Not present                                     |         | RBS-4361 |
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| - Primary scrambling code                                             |               | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4363 |
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| - HS-SCCH Channelisation Code                                         |               | 6                                               |         | RBS-4366 |
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| - CHOICE Configuration info                                           |               | New configuration                               |         | RBS-4376 |
| - New H-RNTI                                                          |               | '1010 1010 1010 1010'                           |         | RBS-4377 |
| - Downlink 64QAM configured                                           |               | True                                            |         | RBS-4378 |
| - HS-DSCH TB size table                                               |               | Not present                                     |         | RBS-4379 |
| - Primary CPICH info                                                  |               |                                                 |         | RBS-4380 |
| - Primary scrambling code                                             |               | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4381 |
| - DL Scrambling Code                                                  |               | Not Present                                     |         | RBS-4382 |
| - HS-SCCH Channelisation Code Information                             |               |                                                 |         | RBS-4383 |
| - HS-SCCH Channelisation Code                                         |               | 6                                               |         | RBS-4384 |
| - HS-SCCH Channelisation Code                                         |               | 7                                               |         | RBS-4385 |
| - Measurement Power Offset                                            |               | 6 dB                                            |         | RBS-4386 |
| - UARFCN downlink (Nd)                                                |               | Reference to clause 5.1 Test frequencies        |         | RBS-4387 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |               | Not Present                                     | Rel-8   | RBS-4388 |
| - multiframeConfigurationInfo                                         |               |                                                 | Rel-11  | RBS-4389 |
| - Multiframe cell                                                     |               | Intra-NodeB                                     |         | RBS-4390 |
| - Multiframe time reference cell                                      |               | False                                           |         | RBS-4391 |
| -Secondary cell MIMO parameters                                       |               | Not Present                                     | Rel-9   | RBS-4392 |
| Downlink secondary cell info FDD                                      | A41, A42, A43 |                                                 | Rel-11  | RBS-4393 |
| - CHOICE Configuration info                                           |               | New configuration                               |         | RBS-4394 |
| - New H-RNTI                                                          |               | '1010 1010 1010 1010'                           |         | RBS-4395 |
| - Downlink 64QAM configured                                           |               | False                                           |         | RBS-4396 |
| - HS-DSCH TB size table                                               |               | Octet Aligned                                   |         | RBS-4397 |
| - Primary CPICH info                                                  |               |                                                 |         | RBS-4398 |
| - Primary scrambling code                                             |               | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4399 |
| - DL Scrambling Code                                                  |               | Not Present                                     |         | RBS-4400 |
| - HS-SCCH Channelisation Code Information                             |               |                                                 |         | RBS-4401 |
| - HS-SCCH Channelisation Code                                         |               | Refer to clause 5.5.1.3                         |         | RBS-4402 |
| - Measurement Power Offset                                            |               | 6 dB                                            |         | RBS-4403 |
| - UARFCN downlink (Nd)                                                |               | Reference to clause 5.1 Test frequencies        |         | RBS-4404 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |               | Not Present                                     | Rel-8   | RBS-4405 |
| - multiframeConfigurationInfo                                         |               |                                                 | Rel-11  | RBS-4406 |
| - Multiframe cell                                                     |               | Intra-NodeB                                     |         | RBS-4407 |
| - Multiframe time reference cell                                      |               | False                                           |         | RBS-4408 |
| -Secondary cell MIMO parameters                                       |               | Not Present                                     | Rel-9   | RBS-4409 |

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| Additional downlink secondary cell info list FDD                      | A42, A43  |                                                 | Rel-11  | RBS-4410 |
| Downlink secondary cell info FDD                                      | A42, A43  |                                                 | Rel-11  | RBS-4411 |
| - CHOICE Configuration info                                           |           | New configuration                               |         | RBS-4412 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |         | RBS-4413 |
| - Downlink 64QAM configured                                           |           | False                                           |         | RBS-4414 |
| - HS-DSCH TB size table                                               |           | Octet Aligned                                   |         | RBS-4415 |
| - Primary CPICH info                                                  |           |                                                 |         | RBS-4416 |
| - Primary scrambling code                                             |           | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4417 |
| - DL Scrambling Code                                                  |           | Not Present                                     |         | RBS-4418 |
| - HS-SCCH Channelisation Code Information                             |           |                                                 |         | RBS-4419 |
| - HS-SCCH Channelisation Code                                         |           | Refer to clause 5.5.1.3                         |         | RBS-4420 |
| - Measurement Power Offset                                            |           | 6 dB                                            |         | RBS-4421 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |         | RBS-4422 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8   | RBS-4423 |
| - multiframeConfigurationInfo                                         |           |                                                 | Rel-11  | RBS-4424 |
| - Multiflow cell                                                      |           | Intra-NodeB                                     |         | RBS-4425 |
| - Multiflow time reference cell                                       |           | True                                            |         | RBS-4426 |
| -Secondary cell MIMO parameters                                       |           | Not Present                                     | Rel-9   | RBS-4427 |
| Downlink secondary cell info FDD                                      | A43       |                                                 | Rel-11  | RBS-4428 |
| - CHOICE Configuration info                                           |           | New configuration                               |         | RBS-4429 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |         | RBS-4430 |
| - Downlink 64QAM configured                                           |           | False                                           |         | RBS-4431 |
| - HS-DSCH TB size table                                               |           | Octet Aligned                                   |         | RBS-4432 |
| - Primary CPICH info                                                  |           |                                                 |         | RBS-4433 |
| - Primary scrambling code                                             |           | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4434 |
| - DL Scrambling Code                                                  |           | Not Present                                     |         | RBS-4435 |
| - HS-SCCH Channelisation Code Information                             |           |                                                 |         | RBS-4436 |
| - HS-SCCH Channelisation Code                                         |           | Refer to clause 5.5.1.3                         |         | RBS-4437 |
| - Measurement Power Offset                                            |           | 6 dB                                            |         | RBS-4438 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |         | RBS-4439 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8   | RBS-4440 |
| - multiframeConfigurationInfo                                         |           |                                                 | Rel-11  | RBS-4441 |
| - Multiflow cell                                                      |           | Intra-NodeB                                     |         | RBS-4442 |
| - Multiflow time reference cell                                       |           | False                                           |         | RBS-4443 |
| -Secondary cell MIMO parameters                                       |           | Not Present                                     | Rel-9   | RBS-4444 |
| Downlink secondary cell info FDD                                      | A44, A45  |                                                 | Rel-11  | RBS-4445 |
| - CHOICE Configuration info                                           |           | New configuration                               |         | RBS-4446 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |         | RBS-4447 |
| - Downlink 64QAM configured                                           |           | False                                           |         | RBS-4448 |
| - HS-DSCH TB size table                                               |           | Octet Aligned                                   |         | RBS-4449 |
| - Primary CPICH info                                                  |           |                                                 |         | RBS-4450 |
| - Primary scrambling code                                             |           | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4451 |
| - DL Scrambling Code                                                  |           | Not Present                                     |         | RBS-4452 |
| - HS-SCCH Channelisation Code Information                             |           |                                                 |         | RBS-4453 |
| - HS-SCCH Channelisation Code                                         |           | Refer to clause 5.5.1.3                         |         | RBS-4454 |
| - Measurement Power Offset                                            |           | 6 dB                                            |         | RBS-4455 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |         | RBS-4456 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8   | RBS-4457 |
| - multiframeConfigurationInfo                                         |           |                                                 | Rel-11  | RBS-4458 |

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| - Multiflow cell                                                      |           | Inter-NodeB                                     |         | RBS-4459 |
| - Multiflow time reference cell                                       |           | True                                            |         | RBS-4460 |
| -Secondary cell MIMO parameters                                       |           | Not Present                                     | Rel-9   | RBS-4461 |
| Additional downlink secondary cell info list FDD                      | A45       |                                                 | Rel-11  | RBS-4462 |
| Downlink secondary cell info FDD                                      | A45       |                                                 | Rel-11  | RBS-4463 |
| - CHOICE Configuration info                                           |           | New configuration                               |         | RBS-4464 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |         | RBS-4465 |
| - Downlink 64QAM configured                                           |           | True                                            |         | RBS-4466 |
| - HS-DSCH TB size table                                               |           | Not present                                     |         | RBS-4467 |
| - Primary CPICH info                                                  |           |                                                 |         | RBS-4468 |
| - Primary scrambling code                                             |           | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4469 |
| - DL Scrambling Code                                                  |           | Not Present                                     |         | RBS-4470 |
| - HS-SCCH Channelisation Code Information                             |           |                                                 |         | RBS-4471 |
| - HS-SCCH Channelisation Code                                         |           | Refer to clause 5.5.1.3                         |         | RBS-4472 |
| - Measurement Power Offset                                            |           | 6 dB                                            |         | RBS-4473 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |         | RBS-4474 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8   | RBS-4475 |
| - multiflowConfigurationInfo                                          |           |                                                 | Rel-11  | RBS-4476 |
| - Multiflow cell                                                      |           | Intra-NodeB                                     |         | RBS-4477 |
| - Multiflow time reference cell                                       |           | False                                           |         | RBS-4478 |
| -Secondary cell MIMO parameters                                       |           | Not Present                                     | Rel-9   | RBS-4479 |
| Additional downlink secondary cell info list FDD                      | A33       |                                                 | Rel-10  | RBS-4480 |
| Downlink secondary cell info FDD                                      | A33       | 3rd Carrier (3C and 4C)                         | Rel-10  | RBS-4481 |
| - CHOICE Configuration info                                           |           | New configuration                               |         | RBS-4482 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |         | RBS-4483 |
| - Downlink 64QAM configured                                           |           | TRUE                                            |         | RBS-4484 |
| - HS-DSCH TB size table                                               |           | Not present                                     |         | RBS-4485 |
| - Primary CPICH info                                                  |           |                                                 |         | RBS-4486 |
| - Primary scrambling code                                             |           | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4487 |
| - DL Scrambling Code                                                  |           | Not Present                                     |         | RBS-4488 |
| - HS-SCCH Channelisation Code Information                             |           |                                                 |         | RBS-4489 |
| - HS-SCCH Channelisation Code                                         |           | 6                                               |         | RBS-4490 |
| - HS-SCCH Channelisation Code                                         |           | 7                                               |         | RBS-4491 |
| - Measurement Power Offset                                            |           | 6 dB                                            |         | RBS-4492 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |         | RBS-4493 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8   | RBS-4494 |
| - Secondary cell MIMO parameters                                      |           |                                                 | Rel-9   | RBS-4495 |
| - CHOICE Configuration info                                           |           |                                                 |         | RBS-4496 |
| - Continue                                                            |           |                                                 |         | RBS-4497 |
| - New configuration                                                   |           |                                                 |         | RBS-4498 |
| - MIMO N_cqi_typeA/M_cqi ratio                                        |           | 1/1                                             |         | RBS-4499 |
| - MIMO pilot configuration                                            |           |                                                 |         | RBS-4500 |
| -CHOICE Second CPICH pattern                                          |           |                                                 |         | RBS-4501 |
| -Antenna2 P-CPICH                                                     |           | No data                                         |         | RBS-4502 |
| -Antenna1 S-CPICH                                                     |           |                                                 |         | RBS-4503 |
| -Channelisation code                                                  |           | 29                                              |         | RBS-4504 |
| -Power Offset for S-CPICH for MIMO                                    |           | 0                                               |         | RBS-4505 |
| - Precoding weight set restriction                                    |           | True                                            |         | RBS-4506 |
| Downlink secondary cell info FDD                                      | A33       | 4th Carrier (4C)                                | Rel-10  | RBS-4507 |
| - CHOICE Configuration info                                           |           | New configuration                               |         | RBS-4508 |

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| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |         | RBS-4509 |
| - Downlink 64QAM configured                                           |           | TRUE                                            |         | RBS-4510 |
| - HS-DSCH TB size table                                               |           | Not present                                     |         | RBS-4511 |
| - Primary CPICH info                                                  |           |                                                 |         | RBS-4512 |
| - Primary scrambling code                                             |           | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4513 |
| - DL Scrambling Code                                                  |           | Not Present                                     |         | RBS-4514 |
| - HS-SCCH Channelisation Code Information                             |           |                                                 |         | RBS-4515 |
| - HS-SCCH Channelisation Code                                         |           | 6                                               |         | RBS-4516 |
| - HS-SCCH Channelisation Code                                         |           | 7                                               |         | RBS-4517 |
| - Measurement Power Offset                                            |           | 6 dB                                            |         | RBS-4518 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |         | RBS-4519 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8   | RBS-4520 |
| - Secondary cell MIMO parameters                                      |           |                                                 | Rel-9   | RBS-4521 |
| - CHOICE Configuration info                                           |           |                                                 |         | RBS-4522 |
| - Continue                                                            |           |                                                 |         | RBS-4523 |
| - New configuration                                                   |           |                                                 |         | RBS-4524 |
| - MIMO N_cqi_typeA/M_cqi ratio                                        |           | 1/1                                             |         | RBS-4525 |
| - MIMO pilot configuration                                            |           |                                                 |         | RBS-4526 |
| -CHOICE Second CPICH pattern                                          |           |                                                 |         | RBS-4527 |
| -Antenna2 P-CPICH                                                     |           | No data                                         |         | RBS-4528 |
| -Antenna1 S-CPICH                                                     |           |                                                 |         | RBS-4529 |
| -Channelisation code                                                  |           | 29                                              |         | RBS-4530 |
| -Power Offset for S-CPICH for MIMO                                    |           | 0                                               |         | RBS-4531 |
| - Precoding weight set restriction                                    |           | True                                            |         | RBS-4532 |
| Additional downlink secondary cell info list FDD                      | A34       | 3rd Carrier (3C and 4C)                         | Rel-10  | RBS-4533 |
| Downlink secondary cell info FDD                                      | A34       |                                                 | Rel-10  | RBS-4534 |
| - CHOICE Configuration info                                           |           | New configuration                               |         | RBS-4535 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |         | RBS-4536 |
| - Downlink 64QAM configured                                           |           | Not Present                                     |         | RBS-4537 |
| - HS-DSCH TB size table                                               |           | Not Present                                     |         | RBS-4538 |
| - Primary CPICH info                                                  |           |                                                 |         | RBS-4539 |
| - Primary scrambling code                                             |           | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4540 |
| - DL Scrambling Code                                                  |           | Not Present                                     |         | RBS-4541 |
| - HS-SCCH Channelisation Code Information                             |           |                                                 |         | RBS-4542 |
| - HS-SCCH Channelisation Code                                         |           | 7                                               |         | RBS-4543 |
| - Measurement Power Offset                                            |           | 6 dB                                            |         | RBS-4544 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |         | RBS-4545 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8   | RBS-4546 |
| -Secondary cell MIMO parameters                                       |           |                                                 | Rel-9   | RBS-4547 |
| - CHOICE Configuration info                                           |           |                                                 |         | RBS-4548 |
| - Continue                                                            |           |                                                 |         | RBS-4549 |
| - New configuration                                                   |           |                                                 |         | RBS-4550 |
| - MIMO N_cqi_typeA/M_cqi ratio                                        |           | 1/1                                             |         | RBS-4551 |
| - MIMO pilot configuration                                            |           |                                                 |         | RBS-4552 |
| -CHOICE Second CPICH pattern                                          |           |                                                 |         | RBS-4553 |
| -Antenna2 P-CPICH                                                     |           | No data                                         |         | RBS-4554 |
| -Antenna1 S-CPICH                                                     |           |                                                 |         | RBS-4555 |
| -Channelisation code                                                  |           | 13                                              |         | RBS-4556 |
| -Power Offset for S-CPICH for MIMO                                    |           | 0                                               |         | RBS-4557 |

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| - Precoding weight set restriction                                    |           | True                                            |         | RBS-4558 |
| Downlink secondary cell info FDD                                      | A34       | 4th Carrier (4C)                                | Rel-10  | RBS-4559 |
| - CHOICE Configuration info                                           |           | New configuration                               |         | RBS-4560 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |         | RBS-4561 |
| - Downlink 64QAM configured                                           |           | Not Present                                     |         | RBS-4562 |
| - HS-DSCH TB size table                                               |           | Not Present                                     |         | RBS-4563 |
| - Primary CPICH info                                                  |           |                                                 |         | RBS-4564 |
| - Primary scrambling code                                             |           | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4565 |
| - DL Scrambling Code                                                  |           | Not Present                                     |         | RBS-4566 |
| - HS-SCCH Channelisation Code Information                             |           |                                                 |         | RBS-4567 |
| - HS-SCCH Channelisation Code                                         |           | 7                                               |         | RBS-4568 |
| - Measurement Power Offset                                            |           | 6 dB                                            |         | RBS-4569 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |         | RBS-4570 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8   | RBS-4571 |
| -Secondary cell MIMO parameters                                       |           |                                                 | Rel-9   | RBS-4572 |
| - CHOICE Configuration info                                           |           |                                                 |         | RBS-4573 |
| - Continue                                                            |           |                                                 |         | RBS-4574 |
| - New configuration                                                   |           |                                                 |         | RBS-4575 |
| - MIMO N_cqi_typeA/M_cqi ratio                                        |           | 1/1                                             |         | RBS-4576 |
| - MIMO pilot configuration                                            |           |                                                 |         | RBS-4577 |
| -CHOICE Second CPICH pattern                                          |           |                                                 |         | RBS-4578 |
| -Antenna2 P-CPICH                                                     |           | No data                                         |         | RBS-4579 |
| -Antenna1 S-CPICH                                                     |           |                                                 |         | RBS-4580 |
| -Channelisation code                                                  |           | 13                                              |         | RBS-4581 |
| -Power Offset for S-CPICH for MIMO                                    |           | 0                                               |         | RBS-4582 |
| - Precoding weight set restriction                                    |           | True                                            |         | RBS-4583 |
| Additional downlink secondary cell info list FDD                      | A35       | 3rd Carrier (3C and 4C)                         | Rel-10  | RBS-4584 |
| Downlink secondary cell info FDD                                      | A35       |                                                 | Rel-10  | RBS-4585 |
| - CHOICE Configuration info                                           |           | New configuration                               |         | RBS-4586 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |         | RBS-4587 |
| - Downlink 64QAM configured                                           |           | TRUE                                            |         | RBS-4588 |
| - HS-DSCH TB size table                                               |           | Not present                                     |         | RBS-4589 |
| - Primary CPICH info                                                  |           |                                                 |         | RBS-4590 |
| - Primary scrambling code                                             |           | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4591 |
| - DL Scrambling Code                                                  |           | Not Present                                     |         | RBS-4592 |
| - HS-SCCH Channelisation Code Information                             |           |                                                 |         | RBS-4593 |
| - HS-SCCH Channelisation Code                                         |           | 6                                               |         | RBS-4594 |
| - HS-SCCH Channelisation Code                                         |           | 7                                               |         | RBS-4595 |
| - Measurement Power Offset                                            |           | 6 dB                                            |         | RBS-4596 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |         | RBS-4597 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8   | RBS-4598 |
| -Secondary cell MIMO parameters                                       |           | Not Present                                     | Rel-9   | RBS-4599 |
| Downlink secondary cell info FDD                                      | A35       | 4th Carrier (4C)                                | Rel-10  | RBS-4600 |
| - CHOICE Configuration info                                           |           | New configuration                               |         | RBS-4601 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |         | RBS-4602 |
| - Downlink 64QAM configured                                           |           | TRUE                                            |         | RBS-4603 |
| - HS-DSCH TB size table                                               |           | Not present                                     |         | RBS-4604 |
| - Primary CPICH info                                                  |           |                                                 |         | RBS-4605 |
| - Primary scrambling code                                             |           | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4606 |
| - DL Scrambling Code                                                  |           | Not Present                                     |         | RBS-4607 |



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| - HS-SCCH Channelisation Code Information                             |           |                                                 |         | RBS-4608 |
| - HS-SCCH Channelisation Code                                         |           | 6                                               |         | RBS-4609 |
| - HS-SCCH Channelisation Code                                         |           | 7                                               |         | RBS-4610 |
| - Measurement Power Offset                                            |           | 6 dB                                            |         | RBS-4611 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |         | RBS-4612 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8   | RBS-4613 |
| -Secondary cell MIMO parameters                                       |           | Not Present                                     | Rel-9   | RBS-4614 |
| Additional downlink secondary cell info list FDD                      | A36       |                                                 | Rel-10  | RBS-4615 |
| Downlink secondary cell info FDD                                      | A36       | 3rd Carrier (3C and 4C)                         | Rel-10  | RBS-4616 |
| - CHOICE Configuration info                                           |           | New configuration                               |         | RBS-4617 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |         | RBS-4618 |
| - Downlink 64QAM configured                                           |           | Not Present                                     |         | RBS-4619 |
| - HS-DSCH TB size table                                               |           | Octet Aligned                                   |         | RBS-4620 |
| - Primary CPICH info                                                  |           |                                                 |         | RBS-4621 |
| - Primary scrambling code                                             |           | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4622 |
| - DL Scrambling Code                                                  |           | Not Present                                     |         | RBS-4623 |
| - HS-SCCH Channelisation Code Information                             |           |                                                 |         | RBS-4624 |
| - HS-SCCH Channelisation Code                                         |           | 7                                               |         | RBS-4625 |
| - Measurement Power Offset                                            |           | 6 dB                                            |         | RBS-4626 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |         | RBS-4627 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8   | RBS-4628 |
| -Secondary cell MIMO parameters                                       |           | Not Present                                     | Rel-9   | RBS-4629 |
| Downlink secondary cell info FDD                                      | A36       | 4th Carrier (4C)                                | Rel-10  | RBS-4630 |
| - CHOICE Configuration info                                           |           | New configuration                               |         | RBS-4631 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |         | RBS-4632 |
| - Downlink 64QAM configured                                           |           | Not Present                                     |         | RBS-4633 |
| - HS-DSCH TB size table                                               |           | Octet Aligned                                   |         | RBS-4634 |
| - Primary CPICH info                                                  |           |                                                 |         | RBS-4635 |
| - Primary scrambling code                                             |           | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4636 |
| - DL Scrambling Code                                                  |           | Not Present                                     |         | RBS-4637 |
| - HS-SCCH Channelisation Code Information                             |           |                                                 |         | RBS-4638 |
| - HS-SCCH Channelisation Code                                         |           | 7                                               |         | RBS-4639 |
| - Measurement Power Offset                                            |           | 6 dB                                            |         | RBS-4640 |
| - UARFCN downlink (Nd)                                                |           | Reference to clause 5.1 Test frequencies        |         | RBS-4641 |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |           | Not Present                                     | Rel-8   | RBS-4642 |
| -Secondary cell MIMO parameters                                       |           | Not Present                                     | Rel-9   | RBS-4643 |
| Additional downlink secondary cell info list FDD                      | A37       |                                                 | Rel-10  | RBS-4644 |
| Downlink secondary cell info FDD                                      | A37       | 3rd Carrier (3C and 4C)                         | Rel-10  | RBS-4645 |
| - CHOICE Configuration info                                           |           | New configuration                               |         | RBS-4646 |
| - New H-RNTI                                                          |           | '1010 1010 1010 1010'                           |         | RBS-4647 |
| - Downlink 64QAM configured                                           |           | TRUE                                            |         | RBS-4648 |
| - HS-DSCH TB size table                                               |           | Not present                                     |         | RBS-4649 |
| - Primary CPICH info                                                  |           |                                                 |         | RBS-4650 |
| - Primary scrambling code                                             |           | Ref. to the Default setting in clause 6.1 (FDD) |         | RBS-4651 |
| - DL Scrambling Code                                                  |           | Not Present                                     |         | RBS-4652 |
| - HS-SCCH Channelisation Code Information                             |           |                                                 |         | RBS-4653 |

| Information Element                                                   | Condition                                                                                                                                                                                                                                                         | Value/remark                                    | Version                                                                         | Index                                                                            |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| - HS-SCCH Channelisation Code                                         |                                                                                                                                                                                                                                                                   | 6                                               |                                                                                 | RBS-4654                                                                         |
| - HS-SCCH Channelisation Code                                         |                                                                                                                                                                                                                                                                   | 7                                               |                                                                                 | RBS-4655                                                                         |
| - Measurement Power Offset                                            |                                                                                                                                                                                                                                                                   | 6 dB                                            |                                                                                 | RBS-4656                                                                         |
| - UARFCN downlink (Nd)                                                |                                                                                                                                                                                                                                                                   | Reference to clause 5.1 Test frequencies        |                                                                                 | RBS-4657                                                                         |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |                                                                                                                                                                                                                                                                   | Not Present                                     | Rel-8                                                                           | RBS-4658                                                                         |
| -Secondary cell MIMO parameters                                       |                                                                                                                                                                                                                                                                   | Not Present                                     | Rel-9                                                                           | RBS-4659                                                                         |
| Downlink secondary cell info FDD                                      | A37                                                                                                                                                                                                                                                               | 4th Carrier (4C)                                | Rel-10                                                                          | RBS-4660                                                                         |
| - CHOICE Configuration info                                           |                                                                                                                                                                                                                                                                   | New configuration                               |                                                                                 | RBS-4661                                                                         |
| - New H-RNTI                                                          |                                                                                                                                                                                                                                                                   | '1010 1010 1010 1010'                           |                                                                                 | RBS-4662                                                                         |
| - Downlink 64QAM configured                                           |                                                                                                                                                                                                                                                                   | TRUE                                            |                                                                                 | RBS-4663                                                                         |
| - HS-DSCH TB size table                                               |                                                                                                                                                                                                                                                                   | Not present                                     |                                                                                 | RBS-4664                                                                         |
| - Primary CPICH info                                                  |                                                                                                                                                                                                                                                                   |                                                 |                                                                                 | RBS-4665                                                                         |
| - Primary scrambling code                                             |                                                                                                                                                                                                                                                                   | Ref. to the Default setting in clause 6.1 (FDD) |                                                                                 | RBS-4666                                                                         |
| - DL Scrambling Code                                                  |                                                                                                                                                                                                                                                                   | Not Present                                     |                                                                                 | RBS-4667                                                                         |
| - HS-SCCH Channelisation Code Information                             |                                                                                                                                                                                                                                                                   |                                                 |                                                                                 | RBS-4668                                                                         |
| - HS-SCCH Channelisation Code                                         |                                                                                                                                                                                                                                                                   | 6                                               |                                                                                 | RBS-4669                                                                         |
| - HS-SCCH Channelisation Code                                         |                                                                                                                                                                                                                                                                   | 7                                               |                                                                                 | RBS-4670                                                                         |
| - Measurement Power Offset                                            |                                                                                                                                                                                                                                                                   | 6 dB                                            |                                                                                 | RBS-4671                                                                         |
| - UARFCN downlink (Nd)                                                |                                                                                                                                                                                                                                                                   | Reference to clause 5.1 Test frequencies        |                                                                                 | RBS-4672                                                                         |
| - Different Tx diversity mode configuration from serving HS-DSCH cell |                                                                                                                                                                                                                                                                   | Not Present                                     | Rel-8                                                                           | RBS-4673                                                                         |
| -Secondary cell MIMO parameters                                       |                                                                                                                                                                                                                                                                   | Not Present                                     | Rel-9                                                                           | RBS-4674                                                                         |
| MBMS PL Service Restriction Information                               | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A12, A13, A14, A15, A16, A17, A17a, A17b, A17c, A17f, A18, A19, A19a, A20, A21, A22, A23, A24, A28a, A25, A25a, A26, A27, A27a, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45 | Not Present                                     | Rel-5<br>Rel-6<br>Rel-7<br>Rel-7<br>Rel-8<br>Rel-8<br>Rel-9<br>Rel-10<br>Rel-11 | RBS-4675<br>RBS-4676<br>RBS-4677<br>RBS-4678<br>RBS-4679<br>RBS-4680<br>RBS-4681 |

| Condition | Explanation                                                                                                                                                                 | Version |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| A1        | This IE is needed for "Non speech to CELL_DCH from CELL_DCH in CS"                                                                                                          |         |
| A2        | This IE is needed for "Speech to CELL_DCH from CELL_DCH in CS"                                                                                                              |         |
| A3        | This IE is needed for "Packet to CELL_DCH from CELL_DCH in PS"                                                                                                              |         |
| A4        | This IE is needed for "Packet to CELL_DCH from CELL_FACH in PS"                                                                                                             |         |
| A5        | This IE is needed for "Packet to CELL_FACH from CELL_DCH in PS"                                                                                                             |         |
| A6        | This IE is needed for "Packet to CELL_FACH from CELL_FACH in PS"                                                                                                            |         |
| A7        | This IE is needed for "Non speech to CELL_DCH from CELL_FACH in CS"                                                                                                         |         |
| A8        | This IE is needed for "Speech to CELL_DCH from CELL_FACH in CS"                                                                                                             |         |
| A9        | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS" | Rel-5   |
| A10       | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_FACH in PS"   | Rel-5   |
| A11       | This IE is needed for " Packet RAB Setup after Speech RAB Setup in CELL_DCH"                                                                                                |         |

|     |                                                                                                                                                                                         |       |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| A12 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using three multiplexing options (3/3) and SRBs mapped on DCH/DCH"                                                          | Rel-6 |
| A13 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH"                                                           | Rel-6 |
| A14 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH"                                                       | Rel-6 |
| A15 | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (two streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH" | Rel-6 |

|      |                                                                                                                                                                                                                                            |                            |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| A16  | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (one conversational and one streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH"                         | Rel-6                      |
| A17  | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC AM"                                                                                                                                                    | Rel-7                      |
| A17a | This IE is needed for "Packet to CELL_DCH / HS-DSCH [DL : 64QAM] with enhanced data rate and RLC AM"                                                                                                                                       | Rel-7                      |
| A17b | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC AM using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH (MAC-ehs)"                                                                     | Rel-7                      |
| A17c | This IE is needed for "Packet to CELL_DCH / HS-DSCH [DL : 64QAM] with enhanced data rate and RLC AM using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH (MAC-ehs)"                                                        | Rel-7                      |
| A17d | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC AM using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH (MAC-ehs)"                                                                         | Rel-7                      |
| A17e | This IE is needed for "Packet to CELL_DCH / HS-DSCH [DL : 64QAM] with enhanced data rate and RLC AM using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH (MAC-ehs)"                                                            | Rel-7                      |
| A17f | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH [DL : 64QAM] with enhanced rate and RLC AM using one multiplexing option (1/1) and SRBs mapped on DCH"                                                                         | Rel-7                      |
| A18  | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC UM"                                                                                                                                                    | Rel-7                      |
| A19  | This IE is needed for "Packet to CELL_DCH / E-DCH[UL : 16QAM] / HS-DSCH using three multiplexing options (3/3) and SRBs mapped on DCH/DCH"                                                                                                 | Rel-7                      |
| A19a | This IE is needed for "Packet to CELL_DCH / E-DCH[UL : 16QAM] / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH"                                                                                                  | Rel-7                      |
| A19b | This IE is needed for "Packet to CELL_DCH / E-DCH[UL : 16QAM] / HS-DSCH with multiple RABs (one conversational and one streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH"             | Rel-7                      |
| A20  | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with DTX/DRX using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH"                                                                                             | Rel-7                      |
| A21  | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with DTX/DRX and multiple RABs (one conversational and one streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH"             | Rel-7                      |
| A22  | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (one conversational and one streaming/interactive/background) with enhanced data rate using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-7                      |
| A23  | This IE is needed for "Speech to CELL_DCH / E-DCH / HS-DSCH CS RAB with DTX/DRX and enhanced data rate using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH"                                                               | Rel-7<br>Rel-8<br>(Note 1) |
| A24  | This IE is needed for "Packet to CELL_FACH from CELL_FACH using one multiplexing option (1/1) and SRBs mapped on RACH/HS-DSCH"                                                                                                             | Rel-7                      |
| A25  | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH [Dual Carrier Adjacent Channels] with enhanced data rate using one multiplexing option (1/1) and SRBs mapped on E-DCH( MACe/es ) /HS-DSCH"                                     | Rel-8                      |
| A25a | This IE is needed for "Packet to CELL_DCH / HS-DSCH [Dual Carrier Adjacent Channels] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH"                                                                                        | Rel-8                      |
| A25b | This IE is needed for "Packet to CELL_DCH / E-DCH ( MACe/es ) / HS-DSCH [Dual Carrier Adjacent Channels] with enhanced data rate using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH"                                         | Rel-8                      |
| A25c | This IE is needed for "Packet to CELL_DCH / E-DCH ( MACi/is ) [Dual-Cell] / HS-DSCH [Dual Carrier Adjacent Channels] with enhanced data rate using one multiplexing option (1/1) and SRBs mapped on E-DCH/ HS-DSCH"                        | Rel-9                      |
| A26  | This IE is needed for "UM Packet to CELL_DCH / E-DCH (MAC-i/is) / HS-DSCH (MAC-ehs) with multiple RABs (three streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH (MAC-i/is)/DCH"               | Rel-8                      |
| A27  | This IE is needed for "UM Packet to CELL_DCH / E-DCH (MAC-i/is) / HS-DSCH (MAC-ehs) using one multiplexing option (1/1) and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH (MAC-ehs)"                                                             | Rel-8                      |
| A27a | This IE is needed for "UM Packet to CELL_DCH / E-DCH [UL : 16QAM] (MAC-i/is) / HS-DSCH (MAC-ehs) using one multiplexing option (1/1) and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH"                                                          | Rel-8                      |
| A28  | This IE is needed for "Packet to CELL_DCH / HS-DSCH [DL : 64QAM+MIMO] with enhanced data rate and RLC AM"                                                                                                                                  | Rel-8                      |
| A28a | This IE is needed for "Packet to CELL_DCH / HS-DSCH [DL : 16QAM+MIMO] with enhanced data rate and RLC AM"                                                                                                                                  | Rel-7                      |
| A29  | This IE is needed for "AM Packet to Enhanced CELL_FACH from Enhanced CELL_FACH in PS with SRBs mapped on common E-DCH/HS-DSCH"                                                                                                             | Rel-8                      |

|     |                                                                                                                                                                                        |        |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| A30 | This IE is needed for "AM Packet to CELL_DCH from Enhanced CELL_FACH in PS with SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH(MAC-ehs)"                                                      | Rel-8  |
| A31 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: DC-HSDPA and MIMO] with enhanced data rate and RLC AM"                                                              | Rel-9  |
| A32 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, DC-HSDPA and MIMO] with enhanced data rate and RLC AM"                                                       | Rel-9  |
| A33 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, 4C-HSDPA and MIMO] with enhanced data rate and RLC AM and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH (MAC-ehs)" | Rel-10 |
| A34 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM, 4C-HSDPA and MIMO] with enhanced data rate and RLC AM and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH (MAC-ehs)" | Rel-10 |
| A35 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, 4C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH "                                    | Rel-10 |
| A36 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM, 4C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH (MAC-ehs)"          | Rel-10 |
| A37 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, 4C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH (MAC-ehs)"          | Rel-10 |
| A38 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, SF-2C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH "                                 | Rel-11 |
| A39 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, DF-3C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH "                                 | Rel-11 |
| A40 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 64QAM, DF-4C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH "                                 | Rel-11 |
| A41 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM, SF-2C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH "                                 | Rel-11 |
| A42 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM, DF-3C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH "                                 | Rel-11 |
| A43 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM, DF-4C-HSDPA] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH "                                 | Rel-11 |
| A44 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM/64QAM, SF-2C-HSDPA and Inter-Node B] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH "          | Rel-11 |
| A45 | This IE is needed for "Packet to CELL_DCH / HS-DSCH [UL: E-DCH DL: 16QAM/64QAM, DF-3C-HSDPA and Inter-Node B] with enhanced data rate and RLC AM and SRBs mapped on DCH/DCH "          | Rel-11 |

NOTE 1: Support depends on the UE capability: Support for CS voice over HSPA. This is supported in Rel-8 and may be supported in Rel-7.

| Condition   | Explanation                                                                      | Version |
|-------------|----------------------------------------------------------------------------------|---------|
| MAC-I-FIXED | Used with other condition when MAC-i/is with Fixed RLC PDU size is configured    | Rel-8   |
| MAC-I-FLEX  | Used with other condition when MAC-i/is with Flexible RLC PDU size is configured | Rel-8   |

## Contents of RADIO BEARER SETUP message: AM or UM, for MBMS PtP Radio Bearer Setup

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- RAB information for setup <ul style="list-style-type: none"> <li>- RAB info</li> <li>- RAB identity</li> </ul> </li> <li>- CN domain identity</li> <li>- NAS Synchronization Indicator</li> <li>- Re-establishment timer</li> <li>- RB information to setup <ul style="list-style-type: none"> <li>- RB identity</li> </ul> </li> <li>- MBMS Service Identity <ul style="list-style-type: none"> <li>- MBMS Service ID</li> </ul> </li> <li>- MBMS Session identity <ul style="list-style-type: none"> <li>- MBMS Session ID</li> </ul> </li> <li>- PDCP info <ul style="list-style-type: none"> <li>- Support for lossless SRNS relocation</li> <li>- Max PDCP SN window size</li> <li>- PDCP PDU header</li> <li>- Header compression information</li> </ul> </li> <li>- CHOICE RLC info type <ul style="list-style-type: none"> <li>- CHOICE Uplink RLC mode</li> <li>- CHOICE Downlink RLC mode <ul style="list-style-type: none"> <li>- DL UM RLC LI size</li> <li>- DL Reception Window Size</li> </ul> </li> </ul> </li> <li>- RB mapping info <ul style="list-style-type: none"> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Downlink RLC logical channel info <ul style="list-style-type: none"> <li>- Number of downlink RLC logical channels</li> </ul> </li> </ul> </li> <li>- Downlink transport channel type <ul style="list-style-type: none"> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- Logical channel identity</li> </ul> </li> </ul> |           | <p>(UM DTCH for PS domain DL only)<br/> 11111111B For Selected Service and Set to same as Enhanced NSAPI received in Service Request (10000000B to 11111110B) for Multicast service.<br/> The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.<br/> PS domain<br/> Not Present<br/> useT315</p> <p>21<br/> Present for Selected Service only<br/> MBMS Service ID of the service UE has selected</p> <p>Ongoing Session ID</p> <p>FALSE<br/> Not present<br/> Absent<br/> Not present<br/> RLC info<br/> Not Present<br/> UM RLC<br/> 7<br/> Not Present</p> <p>1 RBmuxOptions<br/> Not Present<br/> Not Present</p> <p>1</p> <p>DCH<br/> 7<br/> Not Present<br/> Not Present</p> |
| <ul style="list-style-type: none"> <li>- Added or Reconfigured UL TrCH information <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> </ul> </li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> </ul> </li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B5, B2    | <p>5 DCH reconfigured<br/> DCH<br/> 5</p> <p>Dedicated transport channels</p> <p>Reference to clause 6. 11.1b Parameter Set<br/> (This IE is repeated for TFI number.)<br/> Not Present<br/> Reference to clause 6. 11.1b Parameter Set<br/> All</p> <p>Reference to clause 6. 11.1b Parameter Set<br/> Reference to clause 6. 11.1b Parameter Set<br/> Reference to clause 6. 11.1b Parameter Set<br/> Reference to clause 6. 11.1b Parameter Set</p>                                                                                                                                                                                                                                                                        |

| Information Element                                                                          | Condition | Value/remark                                                                                   |
|----------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- CRC size</li> </ul>                                 |           | Reference to clause 6. 11.1b Parameter Set                                                     |
| Added or Reconfigured DL TrCH information                                                    | B1, B2    | 2 TrCHs(DCH for DCCH and 1 DCH for DTCH)                                                       |
| <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> </ul>          |           | DCH                                                                                            |
| <ul style="list-style-type: none"> <li>- DL Transport channel identity</li> </ul>            |           | 10                                                                                             |
| <ul style="list-style-type: none"> <li>- CHOICE DL parameters</li> </ul>                     |           | Same as UL                                                                                     |
| <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> </ul>            |           | DCH                                                                                            |
| <ul style="list-style-type: none"> <li>- UL TrCH identity</li> </ul>                         |           | 5                                                                                              |
| <ul style="list-style-type: none"> <li>- DCH quality target</li> </ul>                       |           | -20 (-2.0)                                                                                     |
| <ul style="list-style-type: none"> <li>- BLER Quality value</li> </ul>                       |           | DCH                                                                                            |
| <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> </ul>          |           | 7                                                                                              |
| <ul style="list-style-type: none"> <li>- DL Transport channel identity</li> </ul>            |           | Explicit                                                                                       |
| <ul style="list-style-type: none"> <li>- CHOICE DL parameters</li> </ul>                     |           |                                                                                                |
| <ul style="list-style-type: none"> <li>- TFS</li> </ul>                                      |           |                                                                                                |
| <ul style="list-style-type: none"> <li>- CHOICE Transport channel type</li> </ul>            |           | Dedicated transport channel                                                                    |
| <ul style="list-style-type: none"> <li>- Dynamic transport format information</li> </ul>     |           |                                                                                                |
| <ul style="list-style-type: none"> <li>- RLC Size</li> </ul>                                 |           | Reference to clause 6. 11.1b Parameter Set                                                     |
| <ul style="list-style-type: none"> <li>- Number of TBs and TTI List</li> </ul>               |           | (This IE is repeated for TFI number.)                                                          |
| <ul style="list-style-type: none"> <li>- Transmission Time Interval</li> </ul>               |           | Not Present                                                                                    |
| <ul style="list-style-type: none"> <li>- Number of Transport blocks</li> </ul>               |           | Reference to clause 6. 11.1b Parameter Set only including TFO                                  |
| <ul style="list-style-type: none"> <li>- CHOICE Logical channel list</li> </ul>              |           | All                                                                                            |
| <ul style="list-style-type: none"> <li>- Semi-static Transport Format information</li> </ul> |           |                                                                                                |
| <ul style="list-style-type: none"> <li>- Transmission time interval</li> </ul>               |           | Reference to clause 6. 11.1b Parameter Set                                                     |
| <ul style="list-style-type: none"> <li>- Type of channel coding</li> </ul>                   |           | Reference to clause 6. 11.1b Parameter Set                                                     |
| <ul style="list-style-type: none"> <li>- Coding Rate</li> </ul>                              |           | Reference to clause 6. 11.1b Parameter Set                                                     |
| <ul style="list-style-type: none"> <li>- Rate matching attribute</li> </ul>                  |           | Reference to clause 6. 11.1b Parameter Set                                                     |
| <ul style="list-style-type: none"> <li>- CRC size</li> </ul>                                 |           | Reference to clause 6. 11.1b Parameter Set                                                     |
| <ul style="list-style-type: none"> <li>- DCH quality target</li> </ul>                       |           | -20 (-2.0)                                                                                     |
| <ul style="list-style-type: none"> <li>- BLER Quality value</li> </ul>                       |           |                                                                                                |
| Added or Reconfigured DL TrCH information                                                    | B3, B4    | 3 TrCHs(DCH for DCCH and 2 DCH for DTCH's)                                                     |
| <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> </ul>          |           | DCH                                                                                            |
| <ul style="list-style-type: none"> <li>- DL Transport channel identity</li> </ul>            |           | 10                                                                                             |
| <ul style="list-style-type: none"> <li>- CHOICE DL parameters</li> </ul>                     |           | Same as UL                                                                                     |
| <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> </ul>            |           | DCH                                                                                            |
| <ul style="list-style-type: none"> <li>- UL TrCH identity</li> </ul>                         |           | 5                                                                                              |
| <ul style="list-style-type: none"> <li>- DCH quality target</li> </ul>                       |           | -20 (-2.0)                                                                                     |
| <ul style="list-style-type: none"> <li>- BLER Quality value</li> </ul>                       |           | DCH                                                                                            |
| <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> </ul>          |           | 6                                                                                              |
| <ul style="list-style-type: none"> <li>- DL Transport channel identity</li> </ul>            |           | Same as UL                                                                                     |
| <ul style="list-style-type: none"> <li>- CHOICE DL parameters</li> </ul>                     |           | DCH                                                                                            |
| <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> </ul>            |           | 1                                                                                              |
| <ul style="list-style-type: none"> <li>- UL TrCH identity</li> </ul>                         |           |                                                                                                |
| <ul style="list-style-type: none"> <li>- DCH quality target</li> </ul>                       |           | -20 (-2.0)                                                                                     |
| <ul style="list-style-type: none"> <li>- BLER Quality value</li> </ul>                       |           | DCH                                                                                            |
| <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> </ul>          |           | 7                                                                                              |
| <ul style="list-style-type: none"> <li>- DL Transport channel identity</li> </ul>            |           | Explicit                                                                                       |
| <ul style="list-style-type: none"> <li>- CHOICE DL parameters</li> </ul>                     |           |                                                                                                |
| <ul style="list-style-type: none"> <li>- TFS</li> </ul>                                      |           |                                                                                                |
| <ul style="list-style-type: none"> <li>- CHOICE Transport channel type</li> </ul>            |           | Dedicated transport channel                                                                    |
| <ul style="list-style-type: none"> <li>- Dynamic transport format information</li> </ul>     |           |                                                                                                |
| <ul style="list-style-type: none"> <li>- RLC Size</li> </ul>                                 |           | Reference to clause 6. 11.1a Parameter Set                                                     |
| <ul style="list-style-type: none"> <li>- Number of TBs and TTI List</li> </ul>               |           | (This IE is repeated for TFI number.)                                                          |
| <ul style="list-style-type: none"> <li>- Transmission Time Interval</li> </ul>               |           | Not Present                                                                                    |
| <ul style="list-style-type: none"> <li>- Number of Transport blocks</li> </ul>               |           | Reference to clause 6. 11.1a Parameter                                                         |
| <ul style="list-style-type: none"> <li>- CHOICE Logical channel list</li> </ul>              |           | All                                                                                            |
| <ul style="list-style-type: none"> <li>- Semi-static Transport Format information</li> </ul> |           |                                                                                                |
| <ul style="list-style-type: none"> <li>- Transmission time interval</li> </ul>               |           | Reference to clause 6. 11.1a Parameter Set                                                     |
| <ul style="list-style-type: none"> <li>- Type of channel coding</li> </ul>                   |           | Reference to clause 6. 11.1a Parameter Set                                                     |
| <ul style="list-style-type: none"> <li>- Coding Rate</li> </ul>                              |           | Reference to clause 6. 11.1a Parameter Set                                                     |
| <ul style="list-style-type: none"> <li>- Rate matching attribute</li> </ul>                  |           | Reference to clause 6. 11.1a Parameter Set                                                     |
| <ul style="list-style-type: none"> <li>- CRC size</li> </ul>                                 |           | Reference to clause 6. 11.1a Parameter Set                                                     |
| <ul style="list-style-type: none"> <li>- DCH quality target</li> </ul>                       |           | -20 (-2.0)                                                                                     |
| <ul style="list-style-type: none"> <li>- BLER Quality value</li> </ul>                       |           |                                                                                                |
| All other IEs                                                                                | B1        | Use the values defined in the RADIO BEARER SETUP message indicated as "Packet to CELL_DCH from |

| Information Element | Condition | Value/remark                                                                                                                                                                                                                                                                         |
|---------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All other IEs       | B2        | CELL_DCH in PS" condition A3 except RB parameter set referred in 6.11.1b instead of 6.10<br>Use the values defined in the RADIO BEARER SETUP message indicated as "Packet to CELL_DCH from CELL_FACH in PS" condition A4 except RB parameter set referred in 6.11.1b instead of 6.10 |
| All other IEs       | B3        | Use the values defined in the RADIO BEARER SETUP message indicated as "Packet to CELL_DCH from CELL_DCH in PS" condition A3 except RB parameter set referred in 6.11.1a instead of 6.10                                                                                              |
| All other IEs       | B4        | Use the values defined in the RADIO BEARER SETUP message indicated as "Packet to CELL_DCH from CELL_FACH in PS" condition A4 except RB parameter set referred in 6.11.1a instead of 6.10                                                                                             |

| Condition | Explanation                                                                     | Version |
|-----------|---------------------------------------------------------------------------------|---------|
| B1        | This IE is needed for " MBMS PtP Radio Bearer Setup when UE state is state 6-7" |         |
| B2        | This IE is needed for " MBMS PtP Radio Bearer Setup when UE state is state 6-8" |         |
| B3        | This IE is needed for " MBMS PtP Radio Bearer Setup, when UE state is 6-10"     |         |
| B4        | This IE is needed for " MBMS PtP Radio Bearer Setup, when UE state is 6-11"     |         |

## Contents of RADIO BEARER SETUP COMPLETE message: AM

| Information Element                                | Value/remark                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                                                                                                                          |
| RRC transaction identifier                         | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message.                                                                                                                                                                                                      |
| Integrity check info                               |                                                                                                                                                                                                                                                                                                          |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.                                                                                                     |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                                                                                                                         |
| Uplink integrity protection activation info        | Not checked.                                                                                                                                                                                                                                                                                             |
| CHOICE mode                                        | FDD                                                                                                                                                                                                                                                                                                      |
| START                                              | Not checked (if ciphering is OFF), check the presence if ciphering is ON.                                                                                                                                                                                                                                |
| Deferred measurement control reading               | Not present for Rel-7 or later, otherwise Not checked                                                                                                                                                                                                                                                    |
| COUNT-C activation time                            | The UE shall include this IE if the following two conditions are fulfilled: (a) The RADIO BEARER SETUP message did not contain the IE "Ciphering activation time for DPCH" and (b) The RADIO BEARER SETUP message established the first RB(s) mapped to RLC-TM for a CN domain. Else, this IE is absent. |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                                                                                                                              |
| Uplink counter synchronization info                | Not present                                                                                                                                                                                                                                                                                              |

## Contents of RADIO BEARER SETUP FAILURE message: AM

| Information Element                                          | Value/remark                                                                                                                                                                                         |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                 |                                                                                                                                                                                                      |
| RRC transaction identifier                                   | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER SETUP message.                                                                                            |
| Integrity check info                                         |                                                                                                                                                                                                      |
| - Message authentication code                                | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                                | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                                | Checked to see if it meets test requirement                                                                                                                                                          |
| Radio bearers for which reconfiguration would have succeeded | Not checked                                                                                                                                                                                          |



## Contents of RADIO BEARER RECONFIGURATION message: AM or UM

| Information Element                                              | Condition              | Value/remark                                                                                                                                                       | Version            | Index   |
|------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|
| Message Type                                                     | A1,A2,A3,A4,A5,A6      |                                                                                                                                                                    |                    | RBC-001 |
| RRC transaction identifier                                       |                        | Arbitrarily selects an integer between 0 and 3                                                                                                                     |                    | RBC-002 |
| Integrity check info                                             |                        |                                                                                                                                                                    |                    | RBC-003 |
| - message authentication code                                    |                        | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                    | RBC-004 |
| - RRC message sequence number                                    |                        | SS provides the value of this IE, from its internal counter.                                                                                                       |                    | RBC-005 |
| Integrity protection mode info                                   |                        | Not Present                                                                                                                                                        |                    | RBC-006 |
| Ciphering mode info                                              |                        | Not Present                                                                                                                                                        |                    | RBC-007 |
| Activation time                                                  | A1,A2,A3               | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$                                                                                                          |                    | RBC-008 |
| Activation time                                                  | A4, A5,A6              | Not Present                                                                                                                                                        |                    | RBC-009 |
| Delay restriction flag                                           | A1,A2,A3,A4,A5,A6      | Not Present                                                                                                                                                        | Rel-6              | RBC-010 |
| New U-RNTI                                                       |                        | Not Present                                                                                                                                                        |                    | RBC-011 |
| New C-RNTI                                                       | A1, A2, A3, A4,        | Not Present                                                                                                                                                        |                    | RBC-012 |
| New C-RNTI                                                       | A5, A6                 | '1010 1010 1010 1010'                                                                                                                                              |                    | RBC-013 |
| New DSCH-RNTI                                                    | A1, A2, A3, A4, A5, A6 | Not Present                                                                                                                                                        | R99 and Rel-4 only | RBC-014 |
| New H-RNTI                                                       | A1, A2, A3, A4, A5, A6 | Not Present                                                                                                                                                        | Rel-5              | RBC-015 |
| New Primary E-RNTI                                               |                        | Not Present                                                                                                                                                        | Rel-6              | RBC-016 |
| New Secondary E-RNTI                                             |                        | Not Present                                                                                                                                                        | Rel-6              | RBC-017 |
| RRC State indicator                                              | A1, A2, A3, A4         | CELL_DCH                                                                                                                                                           |                    | RBC-018 |
| RRC State indicator                                              | A5, A6                 | CELL_FACH                                                                                                                                                          |                    | RBC-019 |
| UE Mobility State Indicator                                      |                        | Not Present                                                                                                                                                        | Rel-7              | RBC-020 |
| UTRAN DRX cycle length coefficient                               | A1,A2,A3,A4,A5,A6      | Not Present                                                                                                                                                        |                    | RBC-021 |
| CN information info                                              |                        | Not Present                                                                                                                                                        |                    | RBC-022 |
| URA identity                                                     |                        | Not Present                                                                                                                                                        |                    | RBC-023 |
| CHOICE specification mode                                        |                        | Complete specification                                                                                                                                             | Rel-5              | RBC-024 |
| RNC support for change of UE capability                          |                        | Not Present                                                                                                                                                        | Rel-7              | RBC-025 |
| Reconfiguration in response to requested change of UE capability |                        | Not Present                                                                                                                                                        | Rel-7              | RBC-026 |
| RAB information to reconfigure list                              |                        | Not Present                                                                                                                                                        |                    | RBC-027 |
| RB information to reconfigure list                               | A1                     | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".                                                                 |                    | RBC-028 |
| - RB information to reconfigure                                  |                        | (UM DCCH for RRC)                                                                                                                                                  |                    | RBC-029 |
| - RB identity                                                    |                        | 1                                                                                                                                                                  |                    | RBC-030 |
| - PDCP info                                                      |                        | Not Present                                                                                                                                                        |                    | RBC-031 |
| - PDCP SN info                                                   |                        | Not Present                                                                                                                                                        |                    | RBC-032 |
| - RLC info                                                       |                        | Not Present                                                                                                                                                        |                    | RBC-033 |
| - RB mapping info                                                |                        | Not Present                                                                                                                                                        |                    | RBC-034 |
| - RB stop/continue                                               |                        | Not Present                                                                                                                                                        |                    | RBC-035 |
| - RB information to reconfigure                                  |                        | (AM DCCH for RRC)                                                                                                                                                  |                    | RBC-036 |
| - RB identity                                                    |                        | 2                                                                                                                                                                  |                    | RBC-037 |
| - PDCP info                                                      |                        | Not Present                                                                                                                                                        |                    | RBC-038 |
| - PDCP SN info                                                   |                        | Not Present                                                                                                                                                        |                    | RBC-039 |
| - RLC info                                                       |                        | Not Present                                                                                                                                                        |                    | RBC-040 |
| - RB mapping info                                                |                        | Not Present                                                                                                                                                        |                    | RBC-041 |
| - RB stop/continue                                               |                        | Not Present                                                                                                                                                        |                    | RBC-042 |
| - RB information to reconfigure                                  |                        | (AM DCCH for NAS_DT High priority)                                                                                                                                 |                    | RBC-043 |
| - RB identity                                                    |                        | 3                                                                                                                                                                  |                    | RBC-044 |
| - PDCP info                                                      |                        | Not Present                                                                                                                                                        |                    | RBC-045 |
| - PDCP SN info                                                   |                        | Not Present                                                                                                                                                        |                    | RBC-046 |
| - RLC info                                                       |                        | Not Present                                                                                                                                                        |                    | RBC-047 |
| - RB mapping info                                                |                        | Not Present                                                                                                                                                        |                    | RBC-048 |
| - RB stop/continue                                               |                        | Not Present                                                                                                                                                        |                    | RBC-049 |
| - RB information to reconfigure                                  |                        | (AM DCCH for NAS_DT Low priority)                                                                                                                                  |                    | RBC-050 |
| - RB identity                                                    |                        | 4                                                                                                                                                                  |                    | RBC-051 |
| - PDCP info                                                      |                        | Not Present                                                                                                                                                        |                    | RBC-052 |
| - PDCP SN info                                                   |                        | Not Present                                                                                                                                                        |                    | RBC-053 |
| - RLC info                                                       |                        | Not Present                                                                                                                                                        |                    | RBC-054 |

| Information Element                | Condition   | Value/remark                                                                                       | Version | Index   |
|------------------------------------|-------------|----------------------------------------------------------------------------------------------------|---------|---------|
| - RB mapping info                  | A2          | Not Present                                                                                        |         | RBC-055 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBC-056 |
| - RB information to reconfigure    |             | (TM DTCH)                                                                                          |         | RBC-057 |
| - RB identity                      |             | 10                                                                                                 |         | RBC-058 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBC-059 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBC-060 |
| - RLC info                         |             | Not Present                                                                                        |         | RBC-061 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBC-062 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBC-063 |
| RB information to reconfigure list |             | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". |         | RBC-064 |
| - RB information to reconfigure    |             | (UM DCCH for RRC)                                                                                  |         | RBC-065 |
| - RB identity                      |             | 1                                                                                                  |         | RBC-066 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBC-067 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBC-068 |
| - RLC info                         |             | Not Present                                                                                        |         | RBC-069 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBC-070 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBC-071 |
| - RB information to reconfigure    |             | (AM DCCH for RRC)                                                                                  |         | RBC-072 |
| - RB identity                      |             | 2                                                                                                  |         | RBC-073 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBC-074 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBC-075 |
| - RLC info                         |             | Not Present                                                                                        |         | RBC-076 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBC-077 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBC-078 |
| - RB information to reconfigure    |             | (AM DCCH for NAS_DT High priority)                                                                 |         | RBC-079 |
| - RB identity                      |             | 3                                                                                                  |         | RBC-080 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBC-081 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBC-082 |
| - RLC info                         |             | Not Present                                                                                        |         | RBC-083 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBC-084 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBC-085 |
| - RB information to reconfigure    |             | (AM DCCH for NAS_DT Low priority)                                                                  |         | RBC-086 |
| - RB identity                      |             | 4                                                                                                  |         | RBC-087 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBC-088 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBC-089 |
| - RLC info                         |             | Not Present                                                                                        |         | RBC-090 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBC-091 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBC-092 |
| - RB information to reconfigure    |             | (TM DTCH)                                                                                          |         | RBC-093 |
| - RB identity                      |             | 10                                                                                                 |         | RBC-094 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBC-095 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBC-096 |
| - RLC info                         |             | Not Present                                                                                        |         | RBC-097 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBC-098 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBC-099 |
| - RB information to reconfigure    |             | (TM DTCH)                                                                                          |         | RBC-100 |
| - RB identity                      |             | 11                                                                                                 |         | RBC-101 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBC-102 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBC-103 |
| - RLC info                         |             | Not Present                                                                                        |         | RBC-104 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBC-105 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBC-106 |
| - RB information to reconfigure    | A3,A4,A5,A6 | (TM DTCH)                                                                                          |         | RBC-107 |
|                                    |             | (This IE is needed for 12.2 kbps and 10.2 kbps)                                                    |         |         |
| - RB identity                      |             | 12                                                                                                 |         | RBC-108 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBC-109 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBC-110 |
| - RLC info                         |             | Not Present                                                                                        |         | RBC-111 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBC-112 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBC-113 |
| RB information to reconfigure list |             | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". |         | RBC-114 |
| - RB information to reconfigure    |             | (UM DCCH for RRC)                                                                                  |         | RBC-115 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Condition                | Value/remark                                                                                                               | Version | Index   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------|---------|---------|
| <ul style="list-style-type: none"><li>- RB identity</li><li>- PDCP info</li><li>- PDCP SN info</li><li>- RLC info</li><li>- RB mapping info</li><li>- RB stop/continue</li><li>- RB information to reconfigure</li><li>- RB identity</li><li>- PDCP info</li><li>- PDCP SN info</li><li>- RLC info</li><li>- RB mapping info</li><li>- RB stop/continue</li><li>- RB information to reconfigure</li><li>- RB identity</li><li>- PDCP info</li><li>- PDCP SN info</li><li>- RLC info</li><li>- RB mapping info</li><li>- RB stop/continue</li><li>- RB information to reconfigure</li><li>- RB identity</li><li>- PDCP info</li><li>- PDCP SN info</li><li>- RLC info</li><li>- RB mapping info</li><li>- RB stop/continue</li><li>- RB information to reconfigure</li><li>- RB identity</li><li>- PDCP info</li><li>- PDCP SN info</li><li>- RLC info</li><li>- RB mapping info</li><li>- RB stop/continue</li><li>- RB information to reconfigure</li><li>- RB identity</li><li>- PDCP info</li><li>- PDCP SN info</li><li>- RLC info</li><li>- RB mapping info</li><li>- RB stop/continue</li></ul> |                          | 1                                                                                                                          |         | RBC-116 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | Not Present                                                                                                                |         | RBC-117 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | (AM DCCH for RRC)                                                                                                          |         | RBC-122 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | 3                                                                                                                          |         | RBC-130 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | (AM DCCH for NAS_DT Low priority)                                                                                          |         | RBC-136 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | 4                                                                                                                          |         | RBC-137 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | Not Present                                                                                                                |         | RBC-138 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | Not Present                                                                                                                |         | RBC-139 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | Not Present                                                                                                                |         | RBC-140 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | Not Present                                                                                                                |         | RBC-141 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | Not Present                                                                                                                |         | RBC-142 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | (AM DTCH)                                                                                                                  |         | RBC-143 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | 20                                                                                                                         |         | RBC-144 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | Not Present                                                                                                                |         | RBC-145 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | Not Present                                                                                                                |         | RBC-146 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | Not Present                                                                                                                |         | RBC-147 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | Not Present                                                                                                                |         | RBC-148 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | Not Present                                                                                                                |         | RBC-149 |
| RB information to be affected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A1, A2, A3,A4,A5,A6      | Not Present                                                                                                                |         | RBC-150 |
| RB with PDCP context relocation info list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          | Not Present                                                                                                                | Rel-5   | RBC-151 |
| PDCP ROHC target mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          | Not Present                                                                                                                | Rel-5   | RBC-152 |
| UL Transport channel information common for all transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A1, A2, A5,A6            | Not Present                                                                                                                |         | RBC-153 |
| UL Transport channel information common for all transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A3, A4                   |                                                                                                                            |         | RBC-154 |
| - PRACH TFCS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Not Present              |                                                                                                                            |         | RBC-155 |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FDD                      |                                                                                                                            |         | RBC-156 |
| - TFC subset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Not Present              |                                                                                                                            |         | RBC-157 |
| - UL DCH TFCS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                                                                                                            |         | RBC-158 |
| - CHOICE TFCI signalling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Normal                   |                                                                                                                            |         | RBC-159 |
| - TFCI Field 1 information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                                                                                                            |         | RBC-160 |
| - CHOICE TFCS representation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Complete reconfiguration |                                                                                                                            |         | RBC-161 |
| - TFCs complete reconfigure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                                                                                                                            |         | RBC-162 |
| information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                                                                                                                            |         |         |
| - CHOICE CTFC Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set.                   |         | RBC-163 |
| - CTFC information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          | This IE is repeated for TFC numbers and reference to clause 6.10.2.4 Parameter Set                                         |         | RBC-164 |
| - CTFC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          | Reference to clause 6.10.2.4 Parameter Set                                                                                 |         | RBC-165 |
| - Power offset information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                                                                                                            |         | RBC-166 |
| - CHOICE Gain Factors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          | Computed Gain Factors(The last TFC is set to Signalled Gain Factors)                                                       |         | RBC-167 |
| - Gain factor βc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          | 11 (below 64 kbps)<br>9 (equal or higher than 64 kbps) when HSDPA is not configured<br>9 (equal or higher than 64 kbps and |         | RBC-168 |

| Information Element                       | Condition              | Value/remark                                                                                                                                                                                                                                                                 | Version | Index   |
|-------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| - Gain factor $\beta_d$                   |                        | below 384 kbps) when HSDPA is also configured<br>6 (equal or higher than 384 kbps) when HSDPA is also configured<br>(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)<br>15<br>(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) |         | RBC-169 |
| - Reference TFC ID                        |                        | 0                                                                                                                                                                                                                                                                            |         | RBC-170 |
| - CHOICE mode                             |                        | FDD                                                                                                                                                                                                                                                                          |         | RBC-171 |
| - Power offset $P_{p-m}$                  |                        | Not Present                                                                                                                                                                                                                                                                  |         | RBC-172 |
| Deleted UL TrCH information               | A1, A2, A3, A4, A5, A6 | Not Present                                                                                                                                                                                                                                                                  |         | RBC-173 |
| Added or Reconfigured UL TrCH information | A1, A2, A5, A6         | Not Present                                                                                                                                                                                                                                                                  |         | RBC-174 |
| Added or Reconfigured UL TrCH information | A4                     | 2 TrCHs(DCH for DCCH and DCH for DTCH)<br>DCH<br>5                                                                                                                                                                                                                           |         | RBC-175 |
| - Uplink transport channel type           |                        |                                                                                                                                                                                                                                                                              |         | RBC-176 |
| - UL Transport channel identity           |                        |                                                                                                                                                                                                                                                                              |         | RBC-177 |
| - TFS                                     |                        |                                                                                                                                                                                                                                                                              |         | RBC-178 |
| - CHOICE Transport channel type           |                        | Dedicated transport channels                                                                                                                                                                                                                                                 |         | RBC-179 |
| - Dynamic Transport format                |                        |                                                                                                                                                                                                                                                                              |         | RBC-180 |
| information                               |                        |                                                                                                                                                                                                                                                                              |         |         |
| - RLC Size                                |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-181 |
| - Number of TBs and TTI List              |                        | (This IE is repeated for TFI number.)                                                                                                                                                                                                                                        |         | RBC-182 |
| - Transmission Time Interval              |                        | Not Present                                                                                                                                                                                                                                                                  |         | RBC-183 |
| - Number of Transport blocks              |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-184 |
| - CHOICE Logical channel list             |                        | All                                                                                                                                                                                                                                                                          |         | RBC-185 |
| - Semi-static Transport Format            |                        |                                                                                                                                                                                                                                                                              |         | RBC-186 |
| information                               |                        |                                                                                                                                                                                                                                                                              |         |         |
| - Transmission time interval              |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-187 |
| - Type of channel coding                  |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-188 |
| - Coding Rate                             |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-189 |
| - Rate matching attribute                 |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-190 |
| - CRC size                                |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-191 |
| - Uplink transport channel type           |                        | DCH                                                                                                                                                                                                                                                                          |         | RBC-192 |
| - UL Transport channel identity           |                        | 1                                                                                                                                                                                                                                                                            |         | RBC-193 |
| - TFS                                     |                        |                                                                                                                                                                                                                                                                              |         | RBC-194 |
| - CHOICE Transport channel type           |                        | Dedicated transport channels                                                                                                                                                                                                                                                 |         | RBC-195 |
| - Dynamic Transport format                |                        |                                                                                                                                                                                                                                                                              |         | RBC-196 |
| information                               |                        |                                                                                                                                                                                                                                                                              |         |         |
| - RLC Size                                |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-197 |
| - Number of TBs and TTI List              |                        | (This IE is repeated for TFI number.)                                                                                                                                                                                                                                        |         | RBC-198 |
| - Transmission Time Interval              |                        | Not Present                                                                                                                                                                                                                                                                  |         | RBC-199 |
| - Number of Transport blocks              |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-200 |
| - CHOICE Logical channel list             |                        | All                                                                                                                                                                                                                                                                          |         | RBC-201 |
| - Semi-static Transport Format            |                        |                                                                                                                                                                                                                                                                              |         | RBC-202 |
| information                               |                        |                                                                                                                                                                                                                                                                              |         |         |
| - Transmission time interval              |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-203 |
| - Type of channel coding                  |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-204 |
| - Coding Rate                             |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-205 |
| - Rate matching attribute                 |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-206 |
| - CRC size                                |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-207 |
| Added or Reconfigured UL TrCH information | A3                     | (DCH for DTCH)                                                                                                                                                                                                                                                               |         | RBC-208 |
| - Uplink transport channel type           |                        | DCH                                                                                                                                                                                                                                                                          |         | RBC-209 |
| - UL Transport channel identity           |                        | 1                                                                                                                                                                                                                                                                            |         | RBC-210 |
| - TFS                                     |                        |                                                                                                                                                                                                                                                                              |         | RBC-211 |
| - CHOICE Transport channel type           |                        | Dedicated transport channels                                                                                                                                                                                                                                                 |         | RBC-212 |
| - Dynamic Transport format                |                        |                                                                                                                                                                                                                                                                              |         | RBC-213 |
| information                               |                        |                                                                                                                                                                                                                                                                              |         |         |
| - RLC Size                                |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-214 |
| - Number of TBs and TTI List              |                        | (This IE is repeated for TFI number.)                                                                                                                                                                                                                                        |         | RBC-215 |
| - Transmission Time Interval              |                        | Not Present                                                                                                                                                                                                                                                                  |         | RBC-216 |
| - Number of Transport blocks              |                        | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                       |         | RBC-217 |
| - CHOICE Logical channel list             |                        | All                                                                                                                                                                                                                                                                          |         | RBC-218 |

| Information Element                                               | Condition             | Value/remark                                                                                             | Version | Index   |
|-------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------|---------|---------|
| - Semi-static Transport Format information                        |                       |                                                                                                          |         | RBC-219 |
| - Transmission time interval                                      |                       | Reference to clause 6.10 Parameter Set                                                                   |         | RBC-220 |
| - Type of channel coding                                          |                       | Reference to clause 6.10 Parameter Set                                                                   |         | RBC-221 |
| - Coding Rate                                                     |                       | Reference to clause 6.10 Parameter Set                                                                   |         | RBC-222 |
| - Rate matching attribute                                         |                       | Reference to clause 6.10 Parameter Set                                                                   |         | RBC-223 |
| - CRC size                                                        |                       | Reference to clause 6.10 Parameter Set                                                                   |         | RBC-224 |
| CHOICE mode                                                       | A1,A2,A3,A4,A5,A6     | Not Present                                                                                              |         | RBC-225 |
| DL Transport channel information common for all transport channel | A1, A2, A5, A6        | Not Present                                                                                              |         | RBC-226 |
| DL Transport channel information common for all transport channel | A3,A4                 |                                                                                                          |         | RBC-227 |
| - SCCPCH TFCS                                                     |                       | Not Present                                                                                              |         | RBC-228 |
| - CHOICE mode                                                     |                       | FDD                                                                                                      |         | RBC-229 |
| - CHOICE DL parameters                                            |                       | Explicit                                                                                                 |         | RBC-230 |
| - DL DCH TFCS                                                     |                       |                                                                                                          |         | RBC-231 |
| - CHOICE TFCI Signalling                                          |                       | Normal                                                                                                   |         | RBC-232 |
| - TFCI Field 1 Information                                        |                       |                                                                                                          |         | RBC-233 |
| - CHOICE TFCS representation                                      |                       | Complete reconfiguration                                                                                 |         | RBC-234 |
| - TFCS complete reconfigure                                       |                       |                                                                                                          |         | RBC-235 |
| - CHOICE CTFC Size                                                |                       | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set. |         | RBC-236 |
| - CTFC information                                                |                       | This IE is repeated for TFC numbers and reference to clause 6.10.2.4                                     |         | RBC-237 |
| - CTFC                                                            |                       | Reference to clause 6.10.2.4 Parameter Set                                                               |         | RBC-238 |
| - Power offset information                                        |                       | Not Present                                                                                              |         | RBC-239 |
| Deleted DL TrCH information                                       | A1, A2, A3, A4, A5,A6 | Not Present                                                                                              |         | RBC-240 |
| Added or Reconfigured DL TrCH information                         | A1, A2, A5, A6        | Not Present                                                                                              |         | RBC-241 |
| Added or Reconfigured DL TrCH information                         | A4                    | 2 TrCHs(DCH for DCCH and DCH for DTCH)                                                                   |         | RBC-242 |
| - Downlink transport channel type                                 |                       | DCH                                                                                                      |         | RBC-243 |
| - DL Transport channel identity                                   |                       | 10                                                                                                       |         | RBC-244 |
| - CHOICE DL parameters                                            |                       | Same as UL                                                                                               |         | RBC-245 |
| - Uplink transport channel type                                   |                       | DCH                                                                                                      |         | RBC-246 |
| - UL TrCH identity                                                |                       | 5                                                                                                        |         | RBC-247 |
| - DCH quality target                                              |                       |                                                                                                          |         | RBC-248 |
| - BLER Quality value                                              |                       | Not Present                                                                                              |         | RBC-249 |
| - Downlink transport channel type                                 |                       | DCH                                                                                                      |         | RBC-250 |
| - DL Transport channel identity                                   |                       | 6                                                                                                        |         | RBC-251 |
| - CHOICE DL parameters                                            |                       | Explicit                                                                                                 |         | RBC-252 |
| - TFS                                                             |                       |                                                                                                          |         | RBC-253 |
| - CHOICE Transport channel type                                   |                       | Dedicated transport channel                                                                              |         | RBC-254 |
| - Dynamic transport format information                            |                       |                                                                                                          |         | RBC-255 |
| - RLC Size                                                        |                       | Reference to clause 6.10 Parameter Set                                                                   |         | RBC-256 |
| - Number of TBs and TTI List                                      |                       | (This IE is repeated for TFI number.)                                                                    |         | RBC-257 |
| - Dynamic transport format information                            |                       |                                                                                                          |         | RBC-258 |
| - Transmission Time Interval                                      |                       | Not Present                                                                                              |         | RBC-259 |
| - Number of Transport blocks                                      |                       | Reference to clause 6.10 Parameter Set                                                                   |         | RBC-260 |
| - Semi-static Transport Format information                        |                       |                                                                                                          |         | RBC-261 |
| - Transmission time interval                                      |                       | Reference to clause 6.10 Parameter Set                                                                   |         | RBC-262 |
| - Type of channel coding                                          |                       | Reference to clause 6.10 Parameter Set                                                                   |         | RBC-263 |
| - Coding Rate                                                     |                       | Reference to clause 6.10 Parameter Set                                                                   |         | RBC-264 |
| - Rate matching attribute                                         |                       | Reference to clause 6.10 Parameter Set                                                                   |         | RBC-265 |
| - CRC size                                                        |                       | Reference to clause 6.10 Parameter Set                                                                   |         | RBC-266 |
| - DCH quality target                                              |                       |                                                                                                          |         | RBC-267 |
| - BLER Quality value                                              |                       | -20 (-2.0)                                                                                               |         | RBC-268 |
| Added or Reconfigured DL TrCH information                         | A3                    |                                                                                                          |         | RBC-269 |
| - Downlink transport channel type                                 |                       | DCH                                                                                                      |         | RBC-270 |
| - DL Transport channel identity                                   |                       | 6                                                                                                        |         | RBC-271 |

| Information Element                              | Condition         | Value/remark                                                                                                                                  | Version | Index    |
|--------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| - CHOICE DL parameters                           |                   | Explicit                                                                                                                                      |         | RBC-272  |
| - TFS                                            |                   |                                                                                                                                               |         | RBC-273  |
| - CHOICE Transport channel type                  |                   | Dedicated transport channel                                                                                                                   |         | RBC-274  |
| - Dynamic transport format information           |                   |                                                                                                                                               |         | RBC-275  |
| - RLC Size                                       |                   | Reference to clause 6.10 Parameter Set                                                                                                        |         | RBC-276  |
| - Number of TBs and TTI List                     |                   | (This IE is repeated for TFI number.)                                                                                                         |         | RBC-277  |
| - Dynamic transport format information           |                   |                                                                                                                                               |         | RBC-278  |
| - Transmission Time Interval                     |                   | Not Present                                                                                                                                   |         | RBC-279  |
| - Number of Transport blocks                     |                   | Reference to clause 6.10 Parameter Set                                                                                                        |         | RBC-280  |
| - Semi-static Transport Format information       |                   |                                                                                                                                               |         | RBC-281  |
| - Transmission time interval                     |                   | Reference to clause 6.10 Parameter Set                                                                                                        |         | RBC-282  |
| - Type of channel coding                         |                   | Reference to clause 6.10 Parameter Set                                                                                                        |         | RBC-283  |
| - Coding Rate                                    |                   | Reference to clause 6.10 Parameter Set                                                                                                        |         | RBC-284  |
| - Rate matching attribute                        |                   | Reference to clause 6.10 Parameter Set                                                                                                        |         | RBC-285  |
| - CRC size                                       |                   | Reference to clause 6.10 Parameter Set                                                                                                        |         | RBC-286  |
| - DCH quality target                             |                   |                                                                                                                                               |         | RBC-287  |
| - BLER Quality value                             |                   | -20 (-2.0)                                                                                                                                    |         | RBC-288  |
| Preconfiguration                                 | A5                | Not Present                                                                                                                                   | Rel-5   | RBC-289  |
| CHOICE Mode                                      |                   | FDD                                                                                                                                           |         | RBC-290  |
| - predefinedConfiguration Identity               |                   | Not Present                                                                                                                                   |         | RBC-291  |
| - defaultConfig                                  |                   | Not Present                                                                                                                                   |         | RBC-292  |
| Frequency info                                   | A1,A2,A3,A4,A5    |                                                                                                                                               |         | RBC-293  |
| - UARFCN uplink (Nu)                             |                   | Not present                                                                                                                                   |         | RBC-294  |
|                                                  |                   | Absence of this IE is equivalent to applying the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] |         |          |
| - UARFCN downlink (Nd)                           |                   | Reference to clause 5.1 Test frequencies                                                                                                      |         | RBC-295  |
| Frequency info                                   | A6                | Not Present                                                                                                                                   |         | RBC-296  |
| DTX-DRX timing information                       |                   | Not Present                                                                                                                                   | Rel-7   | RBC-297  |
| DTX-DRX Information                              |                   | Not Present                                                                                                                                   | Rel-7   | RBC-298  |
| HS-SCCH less Information                         |                   | Not Present                                                                                                                                   | Rel-7   | RBC-299  |
| MIMO parameters                                  |                   | Not Present                                                                                                                                   | Rel-7   | RBC-300  |
| CHOICE mode                                      | A5                | Not Present                                                                                                                                   | Rel-8   | RBC-301  |
| - MIMO N_cqi_typeA/M_cqi ratio                   |                   | Not Present                                                                                                                                   | Rel-7   | RBC-302  |
| - MIMO pilot configuration                       |                   | Not Present                                                                                                                                   | Rel-7   | RBC-303  |
| - Precoding weight set restriction               |                   | Not Present                                                                                                                                   | Rel-7   | RBC-304  |
| MIMO mode with four transmit antennas parameters |                   | Not Present                                                                                                                                   | Rel-11  | RBC-304a |
| DCH Enhancements info FDD                        |                   | Not Present                                                                                                                                   | Rel-12  | RBC-304b |
| Maximum allowed UL TX power                      | A1,A2,A3,A4,A5,A6 | 33dBm                                                                                                                                         |         | RBC-305  |
| CHOICE channel requirement                       | A1, A2, A3, A4    | Uplink DPCH info                                                                                                                              |         | RBC-306  |
| -Uplink DPCH power control info                  |                   |                                                                                                                                               |         | RBC-307  |
| - DPCCH power offset                             |                   | -40 (-80dB)                                                                                                                                   |         | RBC-308  |
| - PC Preamble                                    |                   | 1 frame                                                                                                                                       |         | RBC-309  |
| - SRB delay                                      |                   | 7 frames                                                                                                                                      |         | RBC-310  |
| - Power Control Algorithm                        |                   | Algorithm1                                                                                                                                    |         | RBC-311  |
| - TPC step size                                  |                   | 0 (1dB)                                                                                                                                       |         | RBC-312  |
| - $\Delta_{ACK}$                                 |                   | Not Present                                                                                                                                   | Rel-5   | RBC-313  |
| - $\Delta_{NACK}$                                |                   | Not Present                                                                                                                                   | Rel-5   | RBC-314  |
| - Ack-Nack repetition factor                     |                   | Not Present                                                                                                                                   | Rel-5   | RBC-315  |
| - Scrambling code type                           |                   | Long                                                                                                                                          |         | RBC-316  |
| - Scrambling code number                         |                   | 0 (0 to 16777215)                                                                                                                             |         | RBC-317  |
| - Number of DPDCH                                |                   | Not Present(1)                                                                                                                                |         | RBC-318  |
| - spreading factor                               |                   | Reference to clause 6.10 Parameter Set                                                                                                        |         | RBC-319  |
| - TFCI existence                                 |                   | Reference to clause 6.10 Parameter Set                                                                                                        |         | RBC-320  |
| - Number of FBI bit                              |                   | Reference to clause 6.10 Parameter Set                                                                                                        |         | RBC-321  |
| - Number of TPC bits                             |                   | Not Present                                                                                                                                   | Rel-7   | RBC-322  |
| - Puncturing Limit                               |                   | Reference to clause 6.10 Parameter Set                                                                                                        |         | RBC-323  |
| CHOICE channel requirement                       | A5, A6            | Not Present                                                                                                                                   |         | RBC-324  |
| E-DCH Info                                       |                   | Not Present                                                                                                                                   | Rel-6   | RBC-325  |

| Information Element                             | Condition              | Value/remark                                            | Version            | Index    |
|-------------------------------------------------|------------------------|---------------------------------------------------------|--------------------|----------|
| Mac-es-e-resetIndicator                         | A5                     | Not Present                                             | Rel-6              | RBC-326  |
| CHOICE modeSpecificInfo                         | A5                     | FDD                                                     |                    | RBC-327  |
| - e-DPCCH-Info                                  | A5                     | Not Present                                             |                    | RBC-328  |
| - schedulingTransmConfiguration                 | A5                     | Not Present                                             |                    | RBC-329  |
| - ul-16QAM-Settings                             | A5                     | Not Present                                             | Rel-7              | RBC-330  |
| CHOICE Mode                                     | A1,A2,A3,A4,A5,A6      | FDD                                                     |                    | RBC-331  |
| - Downlink PDSCH information                    |                        | Not Present                                             | R99 and Rel-4 only | RBC-332  |
| Uplink secondary cell info FDD                  | A5                     |                                                         | Rel-9              | RBC-333  |
| Uplink CLTD info FDD                            |                        | Not Present                                             | Rel-11             | RBC-333a |
| Uplink OLTD info FDD                            |                        | Not Present                                             | Rel-11             | RBC-333b |
| Downlink HS-PDSCH Information                   | A1, A2, A3, A4, A5, A6 | Not Present                                             | Rel-5              | RBC-334  |
| - Measurement Feedback Info                     | A5                     | Not Present                                             | Rel-5              | RBC-335  |
| - Choice Mode                                   | A5                     | FDD                                                     |                    | RBC-336  |
| - Downlink 64QAM configured                     | A5                     | Not Present                                             | Rel-7              | RBC-337  |
| Downlink information common for all radio links | A5, A6                 | Not Present                                             |                    | RBC-338  |
| Downlink information common for all radio links | A1, A2, A3             |                                                         |                    | RBC-339  |
| - Downlink DPCH info common for all RL          |                        | Maintain                                                |                    | RBC-340  |
| - Timing indicator                              |                        | Not Present                                             |                    | RBC-341  |
| - CFN-targetSFN frame offset                    |                        |                                                         |                    | RBC-342  |
| - Downlink DPCH power control information       |                        |                                                         |                    | RBC-343  |
| - DPC mode                                      |                        | 0 (single)                                              |                    | RBC-344  |
| - CHOICE mode                                   |                        | FDD                                                     |                    | RBC-345  |
| - Power offset $P_{\text{Pilot-DPCH}}$          |                        | 0                                                       |                    | RBC-346  |
| - DL rate matching restriction information      |                        | Not Present                                             |                    | RBC-347  |
| - Spreading factor                              |                        | Reference to clause 6.10 Parameter Set                  |                    | RBC-348  |
| - Fixed or Flexible Position                    |                        | Reference to clause 6.10 Parameter Set                  |                    | RBC-349  |
| - TFCI existence                                |                        | Reference to clause 6.10 Parameter Set                  |                    | RBC-350  |
| - CHOICE SF                                     |                        | Reference to clause 6.10 Parameter Set                  |                    | RBC-351  |
| - DPCH compressed mode info                     |                        | Not Present                                             |                    | RBC-352  |
| - TX Diversity mode                             |                        | None                                                    |                    | RBC-353  |
| - SSdT information                              |                        | Not Present                                             | R99 and Rel-4 only | RBC-354  |
| - Default DPCH Offset Value                     |                        | Not Present                                             |                    | RBC-355  |
| - MAC-hs reset indicator                        |                        | Not Present                                             | Rel-5              | RBC-356  |
| Downlink information common for all radio links | A4                     |                                                         |                    | RBC-357  |
| - Downlink DPCH info common for all RL          |                        |                                                         |                    | RBC-358  |
| - Timing indicator                              |                        | Initialize                                              |                    | RBC-359  |
| - CFN-targetSFN frame offset                    |                        | Not Present                                             |                    | RBC-360  |
| - Downlink DPCH power control information       |                        |                                                         |                    | RBC-361  |
| - DPC mode                                      |                        | 0 (single)                                              |                    | RBC-362  |
| - CHOICE mode                                   |                        | FDD                                                     |                    | RBC-363  |
| - Power offset $P_{\text{Pilot-DPCH}}$          |                        | 0                                                       |                    | RBC-364  |
| - DL rate matching restriction information      |                        | Not Present                                             |                    | RBC-365  |
| - Spreading factor                              |                        | Reference to clause 6.10 Parameter Set                  |                    | RBC-366  |
| - Fixed or Flexible Position                    |                        | Reference to clause 6.10 Parameter Set                  |                    | RBC-367  |
| - TFCI existence                                |                        | Reference to clause 6.10 Parameter Set                  |                    | RBC-368  |
| - CHOICE SF                                     |                        | Reference to clause 6.10 Parameter Set                  |                    | RBC-369  |
| - DPCH compressed mode info                     |                        | Not Present                                             |                    | RBC-370  |
| - TX Diversity mode                             |                        | None                                                    |                    | RBC-371  |
| - SSdT information                              |                        | Not Present                                             | R99 and Rel-4 only | RBC-372  |
| - Default DPCH Offset Value                     |                        | Present Arbitrary set to value 0..306688 by step of 512 |                    | RBC-373  |
| - MAC-hs reset indicator                        |                        | Not Present                                             | Rel-5              | RBC-374  |
| Downlink information per radio link list        | A1, A2, A3             |                                                         |                    | RBC-375  |
| -Downlink information for each radio            |                        |                                                         |                    | RBC-376  |

| Information Element                          | Condition | Value/remark                                                                                                                                                                                                                                         | Version            | Index   |
|----------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|
| link                                         |           | FDD                                                                                                                                                                                                                                                  |                    | RBC-377 |
| - Choice mode                                |           |                                                                                                                                                                                                                                                      |                    | RBC-378 |
| - Primary CPICH info                         |           |                                                                                                                                                                                                                                                      |                    | RBC-379 |
| - Primary scrambling code                    |           | Ref. to the Default setting in clause 6.1 (FDD)                                                                                                                                                                                                      |                    |         |
| - PDSCH with SHO DCH info                    |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only | RBC-380 |
| - PDSCH code mapping                         |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only | RBC-381 |
| - Serving HS-DSCH radio link indicator       |           | FALSE                                                                                                                                                                                                                                                | Rel-5              | RBC-382 |
| - Serving E-DCH radio link indicator         |           | FALSE                                                                                                                                                                                                                                                | Rel-6              | RBC-383 |
| - Downlink DPCH info for each RL             |           |                                                                                                                                                                                                                                                      |                    | RBC-384 |
| - Primary CPICH usage for channel estimation |           | Primary CPICH may be used                                                                                                                                                                                                                            |                    | RBC-385 |
| - DPCH frame offset                          |           | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400                                                                                                                                                                        |                    | RBC-386 |
| - Secondary CPICH info                       |           | Not Present                                                                                                                                                                                                                                          |                    | RBC-387 |
| - Secondary scrambling code                  |           |                                                                                                                                                                                                                                                      |                    | RBC-388 |
| - channelisation code                        |           |                                                                                                                                                                                                                                                      |                    | RBC-389 |
| - DL channelisation code                     |           |                                                                                                                                                                                                                                                      |                    | RBC-390 |
| - Secondary scrambling code                  |           | 2                                                                                                                                                                                                                                                    |                    | RBC-391 |
| - Spreading factor                           |           | Reference to clause 6.10 Parameter Set 0                                                                                                                                                                                                             |                    | RBC-392 |
| - Code number                                |           | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") |                    | RBC-393 |
| - Scrambling code change                     |           |                                                                                                                                                                                                                                                      |                    | RBC-394 |
| - TPC combination index                      |           | Set to value Default2: OMIT (otherwise)                                                                                                                                                                                                              |                    | RBC-395 |
| - SSST Cell Identity                         |           | 0                                                                                                                                                                                                                                                    |                    | RBC-396 |
|                                              |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only |         |
| - Closed loop timing adjustment mode         |           | Not Present                                                                                                                                                                                                                                          |                    | RBC-397 |
| - E-AGCH Info                                |           | Not present                                                                                                                                                                                                                                          | Rel-6              | RBC-398 |
| - E-HICH Information                         |           | Not present                                                                                                                                                                                                                                          | Rel-6              | RBC-399 |
| - E-RGCH Information                         |           | Not present                                                                                                                                                                                                                                          | Rel-6              | RBC-400 |
| - SCCPCH information for FACH                |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only | RBC-401 |
| Downlink information per radio link list     | A4        |                                                                                                                                                                                                                                                      |                    | RBC-402 |
| - Downlink information for each radio link   |           |                                                                                                                                                                                                                                                      |                    | RBC-403 |
| - Choice mode                                |           | FDD                                                                                                                                                                                                                                                  |                    | RBC-404 |
| - Primary CPICH info                         |           |                                                                                                                                                                                                                                                      |                    | RBC-405 |
| - Primary scrambling code                    |           | Ref. to the Default setting in clause 6.1 (FDD)                                                                                                                                                                                                      |                    | RBC-406 |
| - PDSCH with SHO DCH info                    |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only | RBC-407 |
| - PDSCH code mapping                         |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only | RBC-408 |
| - Serving HS-DSCH radio link indicator       |           | FALSE                                                                                                                                                                                                                                                | Rel-5              | RBC-409 |
| - Serving E-DCH radio link indicator         |           | FALSE                                                                                                                                                                                                                                                | Rel-6              | RBC-410 |
| - Downlink DPCH info for each RL             |           |                                                                                                                                                                                                                                                      |                    | RBC-411 |
| - Primary CPICH usage for channel estimation |           | Primary CPICH may be used                                                                                                                                                                                                                            |                    | RBC-412 |
| - DPCH frame offset                          |           | Set to value : Default DPCH Offset Value mod 38 400                                                                                                                                                                                                  |                    | RBC-413 |
| - Secondary CPICH info                       |           | Not Present                                                                                                                                                                                                                                          |                    | RBC-414 |
| - Secondary scrambling code                  |           |                                                                                                                                                                                                                                                      |                    | RBC-415 |
| - channelisation code                        |           |                                                                                                                                                                                                                                                      |                    | RBC-416 |
| - DL channelisation code                     |           |                                                                                                                                                                                                                                                      |                    | RBC-417 |



| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Condition         | Value/remark                                                                                                                                                                                                                                          | Version            | Index    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| <ul style="list-style-type: none"> <li>- Secondary scrambling code</li> <li>- Spreading factor</li> <li>- Code number</li> <li>- Scrambling code change</li> <li>- TPC combination index</li> <li>- SSST Cell Identity</li> <li>- Closed loop timing adjustment mode</li> <li>- E-AGCH Info</li> <li>- E-HICH Information</li> <li>- E-RGCH Information</li> <li>- SCCPCH information for FACH</li> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- PDSCH with SHO DCH info</li> <li>- PDSCH code mapping</li> <li>- Serving HS-DSCH radio link indicator</li> <li>- Serving E-DCH radio link indicator</li> <li>- Downlink DPCH info for each RL</li> <li>- E-AGCH Info</li> <li>- E-HICH Information</li> <li>- E-RGCH Information</li> <li>- SCCPCH Information for FACH</li> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- PDSCH with SHO DCH info</li> <li>- PDSCH code mapping</li> <li>- Serving E-DCH radio link indicator</li> <li>- Downlink DPCH info for each RL</li> <li>- E-AGCH Info</li> <li>- E-HICH Information</li> <li>- E-RGCH Information</li> <li>- SCCPCH Information for FACH</li> <li>- Downlink information for each radio link</li> </ul> | A5                | 2                                                                                                                                                                                                                                                     |                    | RBC-418  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Reference to clause 6.10 Parameter Set 0                                                                                                                                                                                                              |                    | RBC-419  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPST_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") |                    | RBC-420  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Set to value Default2: OMIT (otherwise)                                                                                                                                                                                                               |                    | RBC-421  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | 0                                                                                                                                                                                                                                                     |                    | RBC-422  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not Present                                                                                                                                                                                                                                           | R99 and Rel-4 only | RBC-423  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not Present                                                                                                                                                                                                                                           |                    | RBC-424  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not present                                                                                                                                                                                                                                           | Rel-6              | RBC-425  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not present                                                                                                                                                                                                                                           | Rel-6              | RBC-426  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not present                                                                                                                                                                                                                                           | Rel-6              | RBC-427  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not Present                                                                                                                                                                                                                                           | R99 and Rel-4 only | RBC-428  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                                                                                                                                                                                                                       |                    | RBC-429  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | FDD                                                                                                                                                                                                                                                   |                    | RBC-430  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                                                                                                                                                                                                                       |                    | RBC-431  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Ref. to the Default setting in clause 6.1 (FDD)                                                                                                                                                                                                       |                    | RBC-432  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not Present                                                                                                                                                                                                                                           | R99 and Rel-4 only | RBC-433  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not Present                                                                                                                                                                                                                                           | R99 and Rel-4 only | RBC-434  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | FALSE                                                                                                                                                                                                                                                 | Rel-5              | RBC-435  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | FALSE                                                                                                                                                                                                                                                 | Rel-6              | RBC-436  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not present                                                                                                                                                                                                                                           |                    | RBC-437  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not present                                                                                                                                                                                                                                           | Rel-6              | RBC-438  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not present                                                                                                                                                                                                                                           | Rel-6              | RBC-439  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not present                                                                                                                                                                                                                                           | Rel-6              | RBC-440  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not Present                                                                                                                                                                                                                                           | R99 and Rel-4 only | RBC-441  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A6                |                                                                                                                                                                                                                                                       | R99                | RBC-442  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | FDD                                                                                                                                                                                                                                                   |                    | RBC-443  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                                                                                                                                                                                                                       |                    | RBC-444  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Ref. to the Default setting in clause 6.1 (FDD)                                                                                                                                                                                                       |                    | RBC-445  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not Present                                                                                                                                                                                                                                           | R99 and Rel-4 only | RBC-446  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not Present                                                                                                                                                                                                                                           | R99 and Rel-4 only | RBC-447  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | FALSE                                                                                                                                                                                                                                                 | Rel-6              | RBC-448  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not present                                                                                                                                                                                                                                           |                    | RBC-449  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not present                                                                                                                                                                                                                                           | Rel-6              | RBC-450  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not present                                                                                                                                                                                                                                           | Rel-6              | RBC-451  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not present                                                                                                                                                                                                                                           | Rel-6              | RBC-452  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   | Not Present                                                                                                                                                                                                                                           | R99 and Rel-4 only | RBC-453  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A6                | Not Present                                                                                                                                                                                                                                           | Rel-4 only         | RBC-454  |
| Downlink secondary cell info FDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A5                | Not Present                                                                                                                                                                                                                                           | Rel-8              | RBC-455  |
| Additional downlink secondary cell info list FDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A5                | Not Present                                                                                                                                                                                                                                           | Rel-10             | RBC-456  |
| - Downlink secondary cell info FDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A5                | Not Present                                                                                                                                                                                                                                           | Rel-10             | RBC-457  |
| Additional downlink secondary cell info list FDD 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A5                | Not Present                                                                                                                                                                                                                                           | Rel-11             | RBC-457a |
| - Downlink secondary cell info FDD 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A5                | Not Present                                                                                                                                                                                                                                           | Rel-11             |          |
| MBMS PL Service Restriction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A1,A2,A3,A4,A5,A6 | Not Present                                                                                                                                                                                                                                           | Rel-6              | RBC-458  |

| Information Element | Condition | Value/remark | Version | Index |
|---------------------|-----------|--------------|---------|-------|
| Information         |           |              |         |       |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

## Contents of RADIO BEARER RECONFIGURATION FAILURE message: AM

| Information Element                                               | Value/remark                                                                                                                                                                                         |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                      |                                                                                                                                                                                                      |
| RRC transaction identifier                                        | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RECONFIGURATION message.                                                                                  |
| Integrity check info                                              |                                                                                                                                                                                                      |
| - Message authentication code                                     | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                                     | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                                     | Checked to see if it meets test requirement                                                                                                                                                          |
| Radio bearers for which reconfiguration would have succeeded List | Not checked                                                                                                                                                                                          |

## Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                         | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION COMPLETE message                                                                                |
| Integrity check info                               |                                                                                                                                                                                                      |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |
| CHOICE mode                                        | FDD                                                                                                                                                                                                  |
| Deferred measurement control reading               | Not present for Rel-7 or later, otherwise Not checked                                                                                                                                                |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |
| Uplink counter synchronization info                | Not present                                                                                                                                                                                          |

## Contents of RADIO BEARER RELEASE message: AM or UM

| Information Element           | Condition                               | Value/remark                                                                                                                                                       | Version | Index              |
|-------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------|
| Message Type                  | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 |                                                                                                                                                                    | Rel-5   | RBR-001            |
| RRC transaction identifier    |                                         | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBR-002<br>RBR-003 |
| Integrity check info          |                                         |                                                                                                                                                                    |         | RBR-004<br>RBR-005 |
| - message authentication code |                                         | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |                    |
| - RRC message sequence number |                                         | SS provides the value of this IE, from its internal counter.                                                                                                       |         | RBR-006            |

| Information Element                                         | Condition                                | Value/remark                                                      | Version            | Index   |
|-------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------|--------------------|---------|
| Integrity protection mode info                              |                                          | Not Present                                                       |                    | RBR-007 |
| Ciphering mode info                                         |                                          | Not Present                                                       |                    | RBR-008 |
| Activation time                                             | A1, A2, A3, A7, A8, A9, A10              | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$         |                    | RBR-009 |
| Activation time                                             | A4, A5, A6                               | Not Present                                                       | Rel-5              | RBR-010 |
| New U-RNTI                                                  |                                          | Not Present                                                       |                    | RBR-011 |
| New C-RNTI                                                  | A1, A2, A3, A4, A9                       | Not Present                                                       |                    | RBR-012 |
|                                                             |                                          |                                                                   |                    | RBR-013 |
| New C-RNTI                                                  | A5, A6, A7, A8, A10                      | '1010 1010 1010 1010'                                             | Rel-5              | RBR-014 |
|                                                             |                                          |                                                                   |                    | RBR-015 |
|                                                             |                                          |                                                                   | Rel-5              | RBR-016 |
| New DSCH-RNTI                                               | A1, A2, A3, A4, A5, A6, A7, A8           | Not Present                                                       | R99 and Rel-4 only | RBR-017 |
| New H-RNTI                                                  | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, | Not Present                                                       |                    | RBR-018 |
| New Primary E-RNTI                                          |                                          | Not Present                                                       | Rel-5              | RBR-019 |
| New Secondary E-RNTI                                        |                                          | Not Present                                                       | Rel-6              | RBR-020 |
| RRC State indicator                                         | A1, A2, A3, A4, A9                       | CELL_DCH                                                          | Rel-6              | RBR-021 |
|                                                             |                                          |                                                                   |                    | RBR-022 |
| RRC State indicator                                         | A5, A6, A7, A8, A10                      | CELL_FACH                                                         | Rel-5              | RBR-023 |
|                                                             |                                          |                                                                   |                    | RBR-024 |
| UE Mobility State Indicator                                 |                                          | Not Present                                                       | Rel-5              | RBR-025 |
| UTRAN DRX cycle length coefficient                          | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10  | Not Present                                                       | Rel-7              | RBR-026 |
|                                                             |                                          |                                                                   |                    | RBR-027 |
| CN information info                                         |                                          | Not Present                                                       | Rel-5              | RBR-028 |
| Signalling Connection release indication                    |                                          | Not Present                                                       |                    | RBR-029 |
| URA identity                                                |                                          | Not Present                                                       |                    | RBR-030 |
| RNC support for change of UE capability                     |                                          | Not Present                                                       |                    | RBR-031 |
| RAB information to reconfigure list                         |                                          | Not Present                                                       | Rel-7              | RBR-032 |
| RB information to release                                   | A1, A2, A7, A8                           | Not Present                                                       |                    | RBR-033 |
| - RB identity                                               |                                          | 10                                                                |                    | RBR-034 |
| RB information to release                                   | A2, A8                                   |                                                                   |                    | RBR-035 |
| - RB identity                                               |                                          | 11                                                                |                    | RBR-036 |
| RB information to release                                   | A2, A8                                   |                                                                   |                    | RBR-037 |
| - RB identity                                               |                                          | 12                                                                |                    | RBR-038 |
| RB information to release                                   | A3, A4, A5, A6                           |                                                                   |                    | RBR-039 |
| - RB identity                                               |                                          | 20                                                                |                    | RBR-040 |
| RB information to release                                   | A9, A10                                  |                                                                   | Rel-5              | RBR-041 |
| - RB identity                                               |                                          | 25                                                                |                    | RBR-042 |
| RB information to reconfigure list                          | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10  | Not Present                                                       | Rel-6              | RBR-043 |
|                                                             |                                          |                                                                   |                    | RBR-044 |
| RB information to be affected                               | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10  | Not Present                                                       |                    | RBR-045 |
|                                                             |                                          |                                                                   | Rel-5              | RBR-046 |
| Downlink counter synchronization info                       | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10  | Not Present                                                       |                    | RBR-047 |
|                                                             |                                          |                                                                   | Rel-5              | RBR-048 |
| UL Transport channel information for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10  | TFCS reconfigured to fit the new transport channel configuration. |                    | RBR-049 |
|                                                             |                                          |                                                                   | Rel-5              | RBR-050 |

| Information Element                                         | Condition                               | Value/remark                                                                    | Version | Index   |
|-------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------|---------|---------|
| Deleted UL TrCH Information                                 | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 |                                                                                 |         | RBR-051 |
| - Uplink transport channel type                             |                                         | DCH                                                                             | Rel-5   | RBR-052 |
| - Transport channel identity                                |                                         | 1                                                                               |         | RBR-053 |
| Deleted UL TrCH Information                                 | A2, A8                                  |                                                                                 |         | RBR-054 |
| - Uplink transport channel type                             |                                         | DCH                                                                             |         | RBR-055 |
| - Transport channel identity                                |                                         | 2                                                                               |         | RBR-056 |
| Deleted UL TrCH Information                                 | A2, A8                                  |                                                                                 |         | RBR-057 |
| - Uplink transport channel type                             |                                         | DCH                                                                             |         | RBR-058 |
| - Transport channel identity                                |                                         | 3                                                                               |         | RBR-059 |
| Added or Reconfigured UL TrCH information                   | A5, A6, A7, A8, A10                     | Not Present                                                                     |         | RBR-060 |
| Added or Reconfigured UL TrCH information                   | A1, A2, A3, A4, A9                      | TrCHs(DCH for DCCH )                                                            | Rel-5   | RBR-061 |
| - Uplink transport channel type                             |                                         | DCH                                                                             | Rel-5   | RBR-062 |
| - UL Transport channel identity                             |                                         | 5                                                                               |         | RBR-063 |
| - TFS                                                       |                                         |                                                                                 |         | RBR-064 |
| - CHOICE Transport channel type                             |                                         | Dedicated transport channels                                                    |         | RBR-065 |
| - Dynamic Transport format information                      |                                         | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RBR-066 |
| - RLC Size                                                  |                                         | (This IE is repeated for TFI number.)                                           |         | RBR-067 |
| - Number of TBs and TTI List                                |                                         | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RBR-068 |
| - Transmission Time Interval                                |                                         | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RBR-069 |
| - Number of Transport blocks                                |                                         | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RBR-070 |
| - CHOICE Logical channel list                               |                                         | All                                                                             |         | RBR-071 |
| - Semi-static Transport Format information                  |                                         | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RBR-072 |
| - Transmission time interval                                |                                         | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RBR-073 |
| - Type of channel coding                                    |                                         | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RBR-074 |
| - Coding Rate                                               |                                         | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RBR-075 |
| - Rate matching attribute                                   |                                         | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RBR-076 |
| - CRC size                                                  |                                         | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RBR-077 |
| DL Transport channel information for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | TFCS reconfigured to fit the new transport channel configuration.               |         | RBR-078 |
| Deleted DL TrCH Information                                 | A1, A2, A3, A4, A5, A6, A7, A8, A9      |                                                                                 | Rel-5   | RBR-079 |
| - Downlink transport channel type                           |                                         | DCH                                                                             | Rel-5   | RBR-080 |
| - Transport channel identity                                |                                         | 6                                                                               |         | RBR-081 |
| Deleted DL TrCH Information                                 | A2, A8                                  |                                                                                 |         | RBR-082 |
| - Downlink transport channel type                           |                                         | DCH                                                                             |         | RBR-083 |
| - Transport channel identity                                |                                         | 7                                                                               |         | RBR-084 |
| Deleted DL TrCH Information                                 | A2, A8                                  |                                                                                 |         | RBR-085 |
| - Downlink transport channel type                           |                                         | DCH                                                                             |         | RBR-086 |
| - Transport channel identity                                |                                         | 8                                                                               |         | RBR-087 |
| Deleted DL TrCH Information                                 | A9, A10                                 |                                                                                 | Rel-5   | RBR-088 |

| Information Element                             | Condition                               | Value/remark                                                                                                                                                 | Version                     | Index              |
|-------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------|
| - Downlink transport channel type               |                                         | HS-DSCH                                                                                                                                                      |                             | RBR-094            |
| - DL HS-DSCH MAC-d flow identity                |                                         | 0                                                                                                                                                            |                             | RBR-095            |
| Added or Reconfigured DL TrCH information       | A5, A6, A7, A8, A10                     | Not Present                                                                                                                                                  |                             | RBR-096            |
| Added or Reconfigured DL TrCH information       | A1, A2, A3, A4, A9                      | 1 TrCHs(DCH for DCCH)                                                                                                                                        | Rel-5                       | RBR-097<br>RBR-098 |
| - Downlink transport channel type               |                                         | DCH                                                                                                                                                          | Rel-5                       | RBR-099            |
| - DL Transport channel identity                 |                                         | 10                                                                                                                                                           |                             | RBR-100            |
| - CHOICE DL parameters                          |                                         | Same as UL                                                                                                                                                   |                             | RBR-101            |
| - Uplink transport channel type                 |                                         | DCH                                                                                                                                                          |                             | RBR-102            |
| - UL TrCH identity                              |                                         | 5                                                                                                                                                            |                             | RBR-103            |
| - DCH quality target                            |                                         |                                                                                                                                                              |                             | RBR-104            |
| - BLER Quality value                            |                                         |                                                                                                                                                              |                             | RBR-105            |
| Frequency info                                  | A1,A2,A3,A4,A5, A7, A8, A9, A10         | Not Present                                                                                                                                                  |                             | RBR-106<br>RBR-107 |
| - UARFCN uplink (Nu)                            |                                         | Not present<br>Absence of this IE is equivalent to applying the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] | Rel-5                       | RBR-108<br>RBR-109 |
| - UARFCN downlink (Nd)                          |                                         | Reference to clause 5.1 Test frequencies                                                                                                                     |                             | RBR-110            |
| DTX-DRX timing information                      |                                         | Not Present                                                                                                                                                  | Rel-7                       | RBR-111            |
| DTX-DRX Information                             |                                         | Not Present                                                                                                                                                  | Rel-7                       | RBR-112            |
| HS-SCCH less Information                        |                                         | Not Present                                                                                                                                                  | Rel-7                       | RBR-113            |
| MIMO parameters                                 |                                         | Not Present                                                                                                                                                  | Rel-7                       | RBR-114            |
| Maximum allowed UL TX power                     |                                         | 33dBm                                                                                                                                                        |                             | RBR-115            |
| Frequency info                                  | A6                                      | Not Present                                                                                                                                                  |                             | RBR-116            |
| CHOICE <i>channel requirement</i>               | A5, A6, A7, A8, A10                     | Not Present                                                                                                                                                  |                             | RBR-117            |
| CHOICE channel requirement                      | A1, A2, A3, A4, A9                      | Uplink DPCH info                                                                                                                                             | Rel-5                       | RBR-118<br>RBR-119 |
| - Uplink DPCH power control info                |                                         |                                                                                                                                                              | Rel-5                       | RBR-120            |
| - DPCCH power offset                            |                                         | -40 (-80dB)                                                                                                                                                  |                             | RBR-121            |
| - PC Preamble                                   |                                         | 1 frame                                                                                                                                                      |                             | RBR-122            |
| - SRB delay                                     |                                         | 7 frames                                                                                                                                                     |                             | RBR-123            |
| - Power Control Algorithm                       |                                         | Algorithm1                                                                                                                                                   |                             | RBR-124            |
| - $\Delta_{ACK}$                                |                                         | Not Present                                                                                                                                                  | Rel-5                       | RBR-125<br>RBR-126 |
| - $\Delta_{NACK}$                               |                                         | Not Present                                                                                                                                                  | Rel-5                       | RBR-127            |
| - Ack-Nack repetition factor                    |                                         | Not Present                                                                                                                                                  | Rel-5                       | RBR-128            |
| - TPC step size                                 |                                         | 0 (1dB)                                                                                                                                                      |                             | RBR-129            |
| - Scrambling code type                          |                                         | Long                                                                                                                                                         |                             | RBR-130            |
| - Scrambling code number                        |                                         | 0 (0 to 16777215)                                                                                                                                            |                             | RBR-131            |
| - Number of DPDCH                               |                                         | Not Present(1)                                                                                                                                               |                             | RBR-132            |
| - spreading factor                              |                                         | Reference to clause 6.10 Parameter Set                                                                                                                       |                             | RBR-133            |
| - TFCI existence                                |                                         | Reference to clause 6.10 Parameter Set                                                                                                                       |                             | RBR-134            |
| - Number of FBI bit                             |                                         | Reference to clause 6.10 Parameter Set                                                                                                                       |                             | RBR-135            |
| - Number of TPC bits                            |                                         | Not Present                                                                                                                                                  | Rel-7                       | RBR-136            |
| - Puncturing Limit                              |                                         | Reference to clause 6.10 Parameter Set                                                                                                                       |                             | RBR-137            |
| E-DCH Info                                      |                                         | Not Present                                                                                                                                                  | Rel-6                       | RBR-138            |
| CHOICE Mode                                     | A1,A2,A3,A4,A5,A6, A7, A8, A9, A10      | FDD                                                                                                                                                          |                             | RBR-139            |
| - Downlink PDSCH information                    |                                         | Not Present                                                                                                                                                  | Rel-5<br>R99 and Rel-4 only | RBR-140<br>RBR-141 |
| Downlink HS-PDSCH Information                   | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                                                                  | Rel-5                       | RBR-142            |
| Downlink information common for all radio links | A5, A6, A7,                             | Not Present                                                                                                                                                  |                             | RBR-143            |

| Information Element                             | Condition                        | Value/remark                                                                  | Version            | Index   |
|-------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------|--------------------|---------|
| Downlink information common for all radio links | A8<br>, A10<br>A1,A2, A3<br>, A9 |                                                                               | Rel-5              | RBR-144 |
|                                                 |                                  |                                                                               | Rel-5              | RBR-145 |
|                                                 |                                  |                                                                               |                    | RBR-146 |
|                                                 |                                  |                                                                               |                    | RBR-147 |
|                                                 |                                  | Maintain                                                                      |                    | RBR-148 |
|                                                 |                                  | Not Present                                                                   |                    | RBR-149 |
|                                                 |                                  |                                                                               |                    | RBR-150 |
|                                                 |                                  | 0 (single)                                                                    |                    | RBR-151 |
|                                                 |                                  | FDD                                                                           |                    | RBR-152 |
|                                                 |                                  | 0                                                                             |                    | RBR-153 |
|                                                 |                                  | Not Present                                                                   |                    | RBR-154 |
|                                                 |                                  | Reference to clause 6.10 Parameter Set                                        |                    | RBR-155 |
|                                                 |                                  | Reference to clause 6.10 Parameter Set                                        |                    | RBR-156 |
|                                                 |                                  | Reference to clause 6.10 Parameter Set                                        |                    | RBR-157 |
|                                                 |                                  | Reference to clause 6.10 Parameter Set                                        |                    | RBR-158 |
|                                                 |                                  | Not Present                                                                   |                    | RBR-159 |
|                                                 |                                  | None                                                                          |                    | RBR-160 |
|                                                 |                                  | Not Present                                                                   | R99 and Rel-4 only | RBR-161 |
| Downlink information common for all radio links | A4                               | Not Present                                                                   |                    | RBR-162 |
|                                                 |                                  | Not Present                                                                   | Rel-5              | RBR-163 |
|                                                 |                                  |                                                                               |                    | RBR-164 |
|                                                 |                                  |                                                                               |                    | RBR-165 |
|                                                 |                                  | Initialize                                                                    |                    | RBR-166 |
|                                                 |                                  | Not Present                                                                   |                    | RBR-167 |
|                                                 |                                  |                                                                               |                    | RBR-168 |
|                                                 |                                  | 0 (single)                                                                    |                    | RBR-169 |
|                                                 |                                  | FDD                                                                           |                    | RBR-170 |
|                                                 |                                  | 0                                                                             |                    | RBR-171 |
| Downlink information common for all radio links | A1,A2,A3<br>, A9                 | Not Present                                                                   |                    | RBR-172 |
|                                                 |                                  |                                                                               |                    | RBR-173 |
|                                                 |                                  | Reference to clause 6.10 Parameter Set                                        |                    | RBR-174 |
|                                                 |                                  | Reference to clause 6.10 Parameter Set                                        |                    | RBR-175 |
|                                                 |                                  | Reference to clause 6.10 Parameter Set                                        |                    | RBR-176 |
|                                                 |                                  | Reference to clause 6.10 Parameter Set                                        |                    | RBR-177 |
|                                                 |                                  | Not Present                                                                   |                    | RBR-178 |
|                                                 |                                  | None                                                                          |                    | RBR-179 |
|                                                 |                                  | Not Present                                                                   | R99 and Rel-4 only | RBR-180 |
|                                                 |                                  | Arbitrary set to value 0..306688 by step of 512                               |                    |         |
|                                                 |                                  | Not Present                                                                   | Rel-5              | RBR-181 |
|                                                 |                                  |                                                                               |                    | RBR-182 |
|                                                 |                                  |                                                                               | Rel-5              | RBR-183 |
|                                                 |                                  |                                                                               |                    | RBR-184 |
|                                                 |                                  | FDD                                                                           |                    | RBR-185 |
|                                                 |                                  |                                                                               |                    | RBR-186 |
|                                                 |                                  | Ref. to the Default setting in clause 6.1 (FDD)                               |                    | RBR-187 |
|                                                 |                                  | Not Present                                                                   | R99 and Rel-4 only | RBR-188 |
|                                                 |                                  | Not Present                                                                   | R99 and Rel-4 only | RBR-189 |
| Downlink information for each radio link list   | A1,A2,A3<br>, A9                 | FALSE                                                                         | Rel-5              | RBR-190 |
|                                                 |                                  | FALSE                                                                         | Rel-6              | RBR-191 |
|                                                 |                                  |                                                                               |                    | RBR-192 |
|                                                 |                                  | Primary CPICH may be used                                                     |                    | RBR-193 |
|                                                 |                                  |                                                                               |                    |         |
|                                                 |                                  | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |                    | RBR-194 |
|                                                 |                                  | Not Present                                                                   |                    | RBR-195 |
|                                                 |                                  |                                                                               |                    | RBR-196 |
|                                                 |                                  |                                                                               |                    | RBR-197 |
|                                                 |                                  |                                                                               |                    | RBR-198 |
|                                                 |                                  | 3                                                                             |                    | RBR-199 |
|                                                 |                                  | Reference to clause 6.10 Parameter Set                                        |                    | RBR-200 |
| estimation                                      |                                  | 0                                                                             |                    | RBR-201 |
|                                                 |                                  |                                                                               |                    |         |

| Information Element                           | Condition  | Value/remark                                                                                                                                                                                                                                         | Version            | Index   |
|-----------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|
| - Scrambling code change                      | A4         | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") | R99 and Rel-4 only | RBR-202 |
| - TPC combination index                       |            | Set to value Default2: OMIT (otherwise)                                                                                                                                                                                                              |                    | RBR-203 |
| - SSDT Cell Identity                          |            | 0                                                                                                                                                                                                                                                    |                    | RBR-204 |
| - Closed loop timing adjustment mode          |            | Not Present                                                                                                                                                                                                                                          |                    | RBR-205 |
| - E-AGCH Info                                 |            | Not present                                                                                                                                                                                                                                          |                    | RBR-206 |
| - E-HICH Information                          |            | Not present                                                                                                                                                                                                                                          |                    | RBR-207 |
| - E-RGCH Information                          |            | Not present                                                                                                                                                                                                                                          |                    | RBR-208 |
| - SCCPCH information for FACH                 |            | Not Present                                                                                                                                                                                                                                          |                    | RBR-209 |
| Downlink information for each radio link list |            |                                                                                                                                                                                                                                                      |                    | RBR-210 |
| - Downlink information for each radio link    |            |                                                                                                                                                                                                                                                      |                    | RBR-211 |
| - Choice mode                                 |            | FDD                                                                                                                                                                                                                                                  |                    | RBR-212 |
| - Primary CPICH info                          |            |                                                                                                                                                                                                                                                      |                    | RBR-213 |
| - Primary scrambling code                     |            | Ref. to the Default setting in clause 6.1 (FDD)                                                                                                                                                                                                      |                    | RBR-214 |
| - PDSCH with SHO DCH info                     |            | Not Present                                                                                                                                                                                                                                          |                    | RBR-215 |
| - PDSCH code mapping                          |            | Not Present                                                                                                                                                                                                                                          |                    | RBR-216 |
| - Serving HS-DSCH radio link indicator        |            | FALSE                                                                                                                                                                                                                                                |                    | RBR-217 |
| - Serving E-DCH radio link indicator          |            | FALSE                                                                                                                                                                                                                                                |                    | RBR-218 |
| - Downlink DPCH info for each RL              |            |                                                                                                                                                                                                                                                      |                    | RBR-219 |
| - Primary CPICH usage for channel estimation  |            | Primary CPICH may be used                                                                                                                                                                                                                            |                    | RBR-220 |
| - DPCH frame offset                           |            | Set to value : Default DPCH Offset<br>Value mod 38 400                                                                                                                                                                                               |                    | RBR-221 |
| - Secondary CPICH info                        |            | Not Present                                                                                                                                                                                                                                          |                    | RBR-222 |
| - Secondary scrambling code                   |            |                                                                                                                                                                                                                                                      |                    | RBR-223 |
| - channelisation code                         |            |                                                                                                                                                                                                                                                      |                    | RBR-224 |
| - DL channelisation code                      |            |                                                                                                                                                                                                                                                      |                    | RBR-225 |
| - Secondary scrambling code                   |            | 3                                                                                                                                                                                                                                                    |                    | RBR-226 |
| - Spreading factor                            |            | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                               |                    | RBR-227 |
| - Code number                                 |            | 0                                                                                                                                                                                                                                                    |                    | RBR-228 |
| - Scrambling code change                      |            | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") |                    | RBR-229 |
| - TPC combination index                       |            | Set to value Default2: OMIT (otherwise)                                                                                                                                                                                                              |                    | RBR-230 |
| - SSDT Cell Identity                          |            | 0                                                                                                                                                                                                                                                    |                    | RBR-231 |
| - Closed loop timing adjustment mode          |            | Not Present                                                                                                                                                                                                                                          |                    | RBR-232 |
| - E-AGCH Info                                 |            | Not present                                                                                                                                                                                                                                          |                    | RBR-233 |
| - E-HICH Information                          |            | Not present                                                                                                                                                                                                                                          |                    | RBR-234 |
| - E-RGCH Information                          |            | Not present                                                                                                                                                                                                                                          |                    | RBR-235 |
| - SCCPCH information for FACH                 |            | Not Present                                                                                                                                                                                                                                          |                    | RBR-236 |
| - Downlink information for each radio link    | A5, A7, A8 |                                                                                                                                                                                                                                                      | R99 and Rel-4 only | RBR-237 |
| - Choice mode                                 |            | FDD                                                                                                                                                                                                                                                  |                    | RBR-238 |
| - Primary CPICH info                          |            |                                                                                                                                                                                                                                                      |                    | RBR-239 |
| - Primary scrambling code                     |            | Ref. to the Default setting in clause 6.1 (FDD)                                                                                                                                                                                                      | R99 and Rel-4 only | RBR-240 |
| - PDSCH with SHO DCH info                     |            | Not Present                                                                                                                                                                                                                                          |                    | RBR-241 |
| - PDSCH code mapping                          |            | Not Present                                                                                                                                                                                                                                          |                    | RBR-242 |

| Information Element                           | Condition                            | Value/remark | Version            | Index   |
|-----------------------------------------------|--------------------------------------|--------------|--------------------|---------|
| - Serving HS-DSCH radio link indicator        |                                      | FALSE        | Rel-5              | RBR-243 |
| - Serving E-DCH radio link indicator          |                                      | FALSE        | Rel-6              | RBR-244 |
| - Downlink DPCH info for each RL              |                                      | Not present  |                    | RBR-245 |
| - E-AGCH Info                                 |                                      | Not present  | Rel-6              | RBR-246 |
| - E-HICH Information                          |                                      | Not present  | Rel-6              | RBR-247 |
| - E-RGCH Information                          |                                      | Not present  | Rel-6              | RBR-248 |
| - SCCPCH information for FACH                 |                                      | Not Present  | R99 and Rel-4 only | RBR-249 |
| - Downlink information for each radio link    | A6, A10                              | Not Present  |                    | RBR-250 |
| MBMS PL Service Restriction Information       | A1,A2, A3,A4,A5, A6, A7, A8, A9, A10 | Not Present  | Rel-6              | RBR-251 |
| MBMS RB list released to change transfer mode |                                      | Not Present  | Rel-6              | RBR-252 |

| Condition | Explanation                                                                                                                                                                 | Version |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| A1        | This IE need for "Non speech in CS"                                                                                                                                         |         |
| A2        | This IE need for "Speech in CS"                                                                                                                                             |         |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"                                                                                                                   |         |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"                                                                                                                  |         |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"                                                                                                                  |         |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS"                                                                                                                 |         |
| A7        | This IE need for "Non speech to CELL_FACH from CELL_DCH in CS"                                                                                                              |         |
| A8        | This IE need for "Speech to CELL_FACH from CELL_DCH in CS"                                                                                                                  |         |
| A9        | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH from CELL_DCH / HS-DSCH in PS" | Rel-5   |
| A10       | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_FACH from CELL_DCH / HS-DSCH in PS"   | Rel-5   |

## Contents of RADIO BEARER RELEASE COMPLETE message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                         | Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message.                                                                                                   |
| Integrity check info                               |                                                                                                                                                                                                      |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Uplink integrity protection activation info        | Not checked.                                                                                                                                                                                         |
| CHOICE mode                                        | FDD                                                                                                                                                                                                  |
| Deferred measurement control reading               | Not present for Rel-7 or later, otherwise Not checked                                                                                                                                                |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |
| Uplink counter synchronization info                | Not present                                                                                                                                                                                          |

## Contents of RADIO BEARER RELEASE FAILURE message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                         | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RELEASE message.                                                                                          |
| Integrity check info                               |                                                                                                                                                                                                      |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                      | Checked to see if it meets test requirement                                                                                                                                                          |
| Radio bearers for which reconfiguration would have | Not checked                                                                                                                                                                                          |



succeeded

Contents of RRC CONNECTION REQUEST message: TM

| Information Element                         | Condition | Value/remark                                                                 | Version |
|---------------------------------------------|-----------|------------------------------------------------------------------------------|---------|
| Message Type                                |           |                                                                              |         |
| Predefined configuration status information |           | To be checked against requirement if specified                               | Rel-5   |
| Initial UE identity                         |           |                                                                              |         |
| - CHOICE UE id type                         |           |                                                                              |         |
| - TMSI and LAI (GSM-MAP)                    |           | Set to the UE's TMSI and LAI.                                                |         |
| Establishment cause                         |           | To be checked against requirement if specified                               |         |
| Protocol error indicator                    |           | FALSE                                                                        |         |
| UE Specific Behaviour Information 1 idle    |           | This IE will not be checked by default behaviour, but in specific test case. |         |
| Domain indicator                            |           | To be checked against requirement if specified                               | Rel-6   |
| Call type                                   |           | To be checked against requirement if specified                               | Rel-6   |
| UE capability indication                    |           | To be checked against requirement if specified                               | Rel-6   |
| Support for F-DPCH                          | A1        | TRUE                                                                         | Rel-6   |
| Support for F-DPCH                          | A2        | Not Present                                                                  | Rel-6   |
| UE Mobility State Indicator                 |           | Not Present                                                                  | Rel-7   |
| Support for Enhanced F-DPCH                 |           | To be checked against requirement if specified                               | Rel-7   |
| HS-PDSCH in CELL_FACH                       |           | To be checked against requirement if specified                               | Rel-7   |
| MAC-ehs support                             |           | To be checked against requirement if specified                               | Rel-7   |
| DPCCH Discontinuous Transmission support    |           | To be checked against requirement if specified                               | Rel-7   |
| Measured results on RACH                    |           | To be checked against requirement if specified                               | Rel-4   |
| Access stratum release indicator            |           | To be checked against requirement if specified                               | Rel-4   |

| Condition | Explanation                                                              |
|-----------|--------------------------------------------------------------------------|
| A1        | This IE need to be set to TRUE when F-DPCH is fully supported by the UE. |
| A2        | This IE need to be absent when F-DPCH is not fully supported by the UE.  |

Contents of RRC CONNECTION REJECT message: UM

| Information Element        | Value/remark                                                                               |
|----------------------------|--------------------------------------------------------------------------------------------|
| Message Type               |                                                                                            |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3                                             |
| Initial UE identity        | Select the same type as in the IE "Initial UE Identity" in RRC CONNECTION REQUEST message. |
| Rejection cause            | Unspecified                                                                                |
| Wait Time                  | 0                                                                                          |
| Redirection info           | Not Present                                                                                |

Contents of RRC CONNECTION RELEASE message: UM

| Information Element         | Value/remark                                                                                                                 | Version    |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------|------------|
| Message Type                |                                                                                                                              |            |
| U-RNTI                      | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. | R99, Rel-4 |
| - SRNC identity             | 0000 0000 0001B                                                                                                              |            |
| - S-RNTI                    | 0000 0000 0000 0000 0001B                                                                                                    |            |
| CHOICE identity type        | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. | Rel-5      |
| - U-RNTI                    |                                                                                                                              |            |
| - SRNC identity             | 0000 0000 0001B                                                                                                              |            |
| - S-RNTI                    | 0000 0000 0000 0000 0001B                                                                                                    |            |
| - Group identity            | [FFS]                                                                                                                        |            |
| - Group release information | [FFS]                                                                                                                        |            |
| RRC transaction identifier  | Arbitrarily selects an integer between 0 and 3                                                                               |            |
| Integrity check info        | This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted.             |            |

|                                       |                                                                                                                                                                    |       |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| - Message authentication code         | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |       |
| - RRC Message sequence number<br>N308 | SS provides the value of this IE, from its internal counter. 2 (for CELL_DCH state). Not Present (for UE in other connected mode states).                          |       |
| Release cause                         | Normal event                                                                                                                                                       |       |
| UE Mobility State Indicator           | Not Present                                                                                                                                                        | Rel-7 |
| Rplmn information                     | Not Present                                                                                                                                                        |       |

Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

| Information Element           | Semantics description                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                         |
| RRC transaction identifier    | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION RELEASE message.                             |
| Integrity check info          |                                                                                                                                                                         |
| - Message authentication code | Checked to see if it's identical to the value of XMAC-I calculated by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | Checked to see if it is present. This number is used by the SS to compute the XMAC-I                                                                                    |
| Error indication              | Not checked                                                                                                                                                             |

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_DCH or in CELL\_FACH)

| Information Element                                           | Condition                  | Value/remark                                                                                            | Version | Index   |
|---------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------|---------|---------|
| Message Type                                                  | A1, A2, A3 ,<br>A4, A5, A6 |                                                                                                         |         | RCS-001 |
| Initial UE identity                                           |                            | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message |         | RCS-002 |
| RRC transaction identifier                                    |                            | Arbitrarily selects an integer between 0 and 3                                                          |         | RCS-003 |
| Activation time                                               |                            | Not Present(Now)                                                                                        |         | RCS-004 |
| New U-RNTI                                                    |                            |                                                                                                         |         | RCS-005 |
| - SRNC identity                                               |                            | 0000 0000 0001B                                                                                         |         | RCS-006 |
| - S-RNTI                                                      |                            | 0000 0000 0000 0000 0001B                                                                               |         | RCS-007 |
| New C-RNTI                                                    | A1, A2, A3<br>A4, A6       | Not present                                                                                             |         | RCS-008 |
|                                                               |                            | '1010 1010 1010 1010'                                                                                   | Rel-7   | RCS-009 |
| New H-RNTI                                                    | A1                         | Not present                                                                                             | Rel-6   | RCS-010 |
|                                                               | A2                         | '1010 1010 1010 1010'                                                                                   | Rel-6   | RCS-011 |
|                                                               | A3, A4                     |                                                                                                         | Rel-7   | RCS-012 |
|                                                               | A5, A6                     |                                                                                                         | Rel-8   | RCS-013 |
| New Primary E-RNTI                                            | A1                         | Not present                                                                                             | Rel-6   | RCS-014 |
|                                                               | A2, A3                     | '1010 1010 1010 1010'                                                                                   | Rel-7   | RCS-015 |
|                                                               | A5, A6                     |                                                                                                         | Rel-8   | RCS-016 |
| New Secondary E-RNTI                                          |                            | Not present                                                                                             | Rel-6   | RCS-017 |
| RRC State Indicator                                           |                            | CELL_DCH                                                                                                |         | RCS-018 |
| RRC State Indicator                                           | A4, A6                     | CELL_FACH                                                                                               |         | RCS-019 |
| UTRAN DRX cycle length coefficient                            |                            | 9                                                                                                       |         | RCS-020 |
| Capability update requirement                                 |                            |                                                                                                         |         | RCS-021 |
| - UE radio access FDD capability update requirement           |                            | TRUE                                                                                                    |         | RCS-022 |
| - UE radio access TDD capability update requirement           |                            | FALSE                                                                                                   |         | RCS-023 |
| - UE radio access 3.84 Mcps TDD capability update requirement |                            | FALSE                                                                                                   | Rel-4   | RCS-024 |
| - UE radio access 1.28 Mcps TDD capability update requirement |                            | FALSE                                                                                                   | Rel-4   | RCS-025 |
| - System specific capability update requirement list          |                            | GSM                                                                                                     |         | RCS-026 |
| - System specific capability update requirement list          | UTRAN to E-UTRA            | GSM, EUTRA                                                                                              | Rel-8   | NOTE 2  |
| RNC support for change of UE capability                       |                            | FALSE                                                                                                   | Rel-7   | RCS-027 |

| Information Element                  | Condition | Value/remark                                                                       | Version | Index   |
|--------------------------------------|-----------|------------------------------------------------------------------------------------|---------|---------|
| CHOICE <i>specification mode</i>     |           | Complete specification                                                             | Rel-5   | RCS-028 |
| - Complete specification             |           |                                                                                    | Rel-5   | RCS-029 |
| - Signalling RB information to setup | A1        | (UM DCCH for RRC)                                                                  |         | RCS-030 |
| - RB identity                        |           | Not Present                                                                        |         | RCS-031 |
| - CHOICE RLC info type               |           |                                                                                    |         | RCS-032 |
| - RLC info                           |           |                                                                                    |         | RCS-033 |
| - CHOICE Uplink RLC mode             |           | UM RLC                                                                             |         | RCS-034 |
| - Transmission RLC discard           |           | Not Present                                                                        |         | RCS-035 |
| - CHOICE Downlink RLC mode           |           | UM RLC                                                                             |         | RCS-036 |
| - DL UM RLC LI size                  |           | 7 bit                                                                              | Rel-6   | RCS-037 |
| - One sided RLC re-establishment     |           | FALSE                                                                              | Rel-6   | RCS-038 |
| - RB mapping info                    |           |                                                                                    |         | RCS-039 |
| - Information for each multiplexing  |           | 2 RBMuxOptions                                                                     |         | RCS-040 |
| option                               |           |                                                                                    |         |         |
| - RLC logical channel mapping        |           | Not Present                                                                        |         | RCS-041 |
| indicator                            |           |                                                                                    |         |         |
| - Number of RLC logical channels     |           | 1                                                                                  |         | RCS-042 |
| - Uplink transport channel type      |           | DCH                                                                                |         | RCS-043 |
| - UL Transport channel identity      |           | 5                                                                                  |         | RCS-044 |
| - Logical channel identity           |           | 1                                                                                  |         | RCS-045 |
| - CHOICE RLC size list               |           | Configured                                                                         |         | RCS-046 |
| - MAC logical channel priority       |           | 1                                                                                  |         | RCS-047 |
| - Downlink RLC logical channel       |           |                                                                                    |         | RCS-048 |
| info                                 |           |                                                                                    |         |         |
| - Number of RLC logical              |           | 1                                                                                  |         | RCS-049 |
| channels                             |           |                                                                                    |         |         |
| - Downlink transport channel         |           | DCH                                                                                |         | RCS-050 |
| type                                 |           |                                                                                    |         |         |
| - DL DCH Transport channel           |           | 10                                                                                 |         | RCS-051 |
| identity                             |           |                                                                                    |         |         |
| - DL DSCH Transport channel          |           | Not Present                                                                        |         | RCS-052 |
| identity                             |           |                                                                                    |         |         |
| - Logical channel identity           |           | 1                                                                                  |         | RCS-053 |
| - RLC logical channel mapping        |           | Not Present                                                                        |         | RCS-054 |
| indicator                            |           |                                                                                    |         |         |
| - Number of RLC logical channels     |           | 1                                                                                  |         | RCS-055 |
| - Uplink transport channel type      |           | RACH                                                                               |         | RCS-056 |
| - UL Transport channel identity      |           | Not Present                                                                        |         | RCS-057 |
| - Logical channel identity           |           | 1                                                                                  |         | RCS-058 |
| - CHOICE RLC size list               |           | Explicit List                                                                      |         | RCS-059 |
| - RLC size index                     |           | According to clause 6.10.2.4.1.3 (standalone<br>13.6 kbps signalling radio bearer) |         | RCS-060 |
| - MAC logical channel priority       |           | 1                                                                                  |         | RCS-061 |
| - Downlink RLC logical channel       |           |                                                                                    |         | RCS-062 |
| info                                 |           |                                                                                    |         |         |
| - Number of RLC logical              |           | 1                                                                                  |         | RCS-063 |
| channels                             |           |                                                                                    |         |         |
| - Downlink transport channel         |           | FACH                                                                               |         | RCS-064 |
| type                                 |           |                                                                                    |         |         |
| - DL DCH Transport channel           |           | Not Present                                                                        |         | RCS-065 |
| identity                             |           |                                                                                    |         |         |
| - DL DSCH Transport channel          |           | Not Present                                                                        |         | RCS-066 |
| identity                             |           |                                                                                    |         |         |
| - Logical channel identity           |           | 1                                                                                  |         | RCS-067 |
| - Signalling RB information to setup | A2        | (UM DCCH for RRC)                                                                  | Rel-6   | RCS-068 |
| - RB identity                        |           | Not Present                                                                        |         | RCS-069 |
| - CHOICE RLC info type               |           |                                                                                    |         | RCS-070 |
| - RLC info                           |           |                                                                                    |         | RCS-071 |
| - CHOICE Uplink RLC mode             |           | UM RLC                                                                             |         | RCS-072 |
| - Transmission RLC discard           |           | Not Present                                                                        |         | RCS-073 |
| - CHOICE Downlink RLC mode           |           | UM RLC                                                                             |         | RCS-074 |
| - DL UM RLC LI size                  |           | 7 bit                                                                              | Rel-6   | RCS-075 |
| - One sided RLC re-establishment     |           | FALSE                                                                              | Rel-6   | RCS-076 |
| - RB mapping info                    |           |                                                                                    |         | RCS-077 |
| - Information for each multiplexing  |           | 1 RBMuxOption                                                                      |         | RCS-078 |
| option                               |           |                                                                                    |         |         |
| - RLC logical channel mapping        |           | Not Present                                                                        |         | RCS-079 |

| Information Element                        | Condition | Value/remark      | Version | Index   |
|--------------------------------------------|-----------|-------------------|---------|---------|
| indicator                                  |           |                   |         |         |
| - Number of RLC logical channels           |           | 1                 |         | RCS-080 |
| - Uplink transport channel type            |           | E-DCH             |         | RCS-081 |
| - Logical channel identity                 |           | 1                 |         | RCS-082 |
| - E-DCH MAC-d flow identity                |           | 1                 |         | RCS-083 |
| - DDI                                      |           | 1                 |         | RCS-084 |
| - RLC PDU size list                        |           | 1 RLC PDU size    |         | RCS-085 |
| - RLC PDU size                             |           | 144 bits          |         | RCS-086 |
| - Include in scheduling info               |           | FALSE             |         | RCS-087 |
| - MAC logical channel priority             |           | 1                 |         | RCS-088 |
| - Downlink RLC logical channel             |           |                   |         | RCS-089 |
| info                                       |           |                   |         |         |
| - Number of RLC logical channels           |           | 1                 |         | RCS-090 |
| - Downlink transport channel type          |           | HS-DSCH           |         | RCS-091 |
| - DL DCH Transport channel identity        |           | Not present       |         | RCS-092 |
| - DL DSCH Transport channel identity       |           | Not Present       |         | RCS-093 |
| - DL HS-DSCH MAC-d flow identity           |           | 1                 |         | RCS-094 |
| - Logical channel identity                 |           | 1                 |         | RCS-095 |
| - Signalling RB information to setup       | A3        | (UM DCCH for RRC) | Rel-7   | RCS-096 |
| - RB identity                              | A5, A6    | Not present       | Rel-8   | RCS-097 |
| - CHOICE RLC info type                     |           |                   |         | RCS-098 |
| - RLC info                                 |           |                   |         | RCS-099 |
| - CHOICE Uplink RLC mode                   |           | UM RLC            |         | RCS-100 |
| - Transmission RLC discard                 |           | Not Present       |         | RCS-101 |
| - CHOICE Downlink RLC mode                 |           | UM RLC            |         | RCS-102 |
| - DL UM RLC LI size                        |           | 7 bit             |         | RCS-103 |
| - One sided RLC re-establishment           |           | FALSE             |         | RCS-104 |
| - Alternative E-bit interpretation         |           | TRUE              |         | RCS-105 |
| - Use special value of HE field            |           | Not present       |         | RCS-106 |
| - RB mapping info                          |           |                   |         | RCS-107 |
| - Information for each multiplexing option |           | 1 RBMuxOption     |         | RCS-108 |
| - RLC logical channel mapping indicator    |           | Not Present       |         | RCS-109 |
| - Number of RLC logical channels           |           | 1                 |         | RCS-110 |
| - Uplink transport channel type            |           | E-DCH             |         | RCS-111 |
| - Logical channel identity                 |           | 1                 |         | RCS-112 |
| - E-DCH MAC-d flow identity                |           | 1                 |         | RCS-113 |
| - DDI                                      |           | 1                 |         | RCS-114 |
| - CHOICE RLC PDU size                      |           | Fixed size        |         | RCS-115 |
| - RLC PDU size list                        |           | 1 RLC PDU size    | Rel-8   | RCS-116 |
| - RLC PDU size                             |           | 144 bits          |         | RCS-117 |
| - Include in scheduling info               |           | FALSE             |         | RCS-118 |
| - MAC logical channel priority             |           | 1                 |         | RCS-119 |
| - Downlink RLC logical channel             |           |                   |         | RCS-120 |
| info                                       |           |                   |         |         |
| - Number of RLC logical channels           |           | 1                 |         | RCS-121 |
| - Downlink transport channel type          |           | HS-DSCH           |         | RCS-122 |
| - DL DCH Transport channel identity        |           | Not present       |         | RCS-123 |
| - DL DSCH Transport channel identity       |           | Not Present       |         | RCS-124 |
| - CHOICE DL MAC header type                |           | MAC-ehs           |         | RCS-125 |
| - DL HS-DSCH MAC-ehs                       |           | 1                 |         | RCS-126 |
| Queue Id                                   |           |                   |         |         |
| - Logical channel identity                 |           | 1                 |         | RCS-127 |
| - Signalling RB information to setup       | A4        | (UM DCCH for RRC) | Rel-7   | RCS-128 |
| - RB identity                              |           | Not present       |         | RCS-129 |
| - CHOICE RLC info type                     |           |                   |         | RCS-130 |
|                                            |           |                   |         | RCS-131 |

| Information Element                        | Condition | Value/remark                                                                    | Version | Index   |
|--------------------------------------------|-----------|---------------------------------------------------------------------------------|---------|---------|
| - RLC info                                 |           | UM RLC                                                                          |         | RCS-132 |
| - CHOICE Uplink RLC mode                   |           | Not Present                                                                     |         | RCS-133 |
| - Transmission RLC discard                 |           | UM RLC                                                                          |         | RCS-134 |
| - CHOICE Downlink RLC mode                 |           | 7 bit                                                                           |         | RCS-135 |
| - DL UM RLC LI size                        |           | FALSE                                                                           |         | RCS-136 |
| - One sided RLC re-establishment           |           | Not Present                                                                     |         | RCS-137 |
| - Alternative E-bit interpretation         |           | Not Present                                                                     |         | RCS-138 |
| - Use special value of HE field            |           | Not Present                                                                     |         | RCS-139 |
| - RB mapping info                          |           | 1 RBMuxOption                                                                   |         | RCS-140 |
| - Information for each multiplexing option |           | Not Present                                                                     |         | RCS-141 |
| indicator                                  |           |                                                                                 |         |         |
| - RLC logical channel mapping              |           | 1                                                                               |         | RCS-142 |
| - Number of RLC logical channels           |           | RACH                                                                            |         | RCS-143 |
| - Uplink transport channel type            |           | Not Present                                                                     |         | RCS-144 |
| - UL Transport channel identity            |           | 1                                                                               |         | RCS-145 |
| - Logical channel identity                 |           | According to clause 6.10.2.4.4.1 (combinations on PRACH)                        |         | RCS-146 |
| - CHOICE RLC size list                     |           | 1                                                                               |         | RCS-147 |
| - MAC logical channel priority             |           | 1                                                                               |         | RCS-148 |
| - Downlink RLC logical channel             |           |                                                                                 |         | RCS-149 |
| info                                       |           |                                                                                 |         |         |
| - Number of RLC logical channels           |           | 1                                                                               |         | RCS-150 |
| channels                                   |           |                                                                                 |         |         |
| - Downlink transport channel               |           | HS-DSCH                                                                         |         | RCS-151 |
| type                                       |           |                                                                                 |         |         |
| - DL DCH Transport channel                 |           | Not present                                                                     |         | RCS-152 |
| identity                                   |           |                                                                                 |         |         |
| - DL DSCH Transport channel                |           | Not Present                                                                     |         | RCS-153 |
| identity                                   |           |                                                                                 |         |         |
| - CHOICE <i>DL MAC header type</i>         |           | MAC-ehs                                                                         |         | RCS-154 |
| - DL HS-DSCH MAC-ehs                       |           | 1                                                                               |         | RCS-155 |
| Queue Id                                   |           |                                                                                 |         |         |
| - Logical channel identity                 |           | 1                                                                               |         | RCS-156 |
| - Signalling RB information to setup       | A1        | (AM DCCH for RRC)                                                               |         | RCS-157 |
| - RB identity                              |           | Not Present                                                                     |         | RCS-158 |
| - CHOICE RLC info type                     |           |                                                                                 |         | RCS-159 |
| - RLC info                                 |           | AM RLC                                                                          |         | RCS-160 |
| - CHOICE Uplink RLC mode                   |           |                                                                                 |         | RCS-161 |
| - Transmission RLC discard                 |           | No discard                                                                      |         | RCS-162 |
| - SDU discard mode                         |           | 15                                                                              |         | RCS-163 |
| - MAX_DAT                                  |           | 32                                                                              |         | RCS-164 |
| - Transmission window size                 |           | 500                                                                             |         | RCS-165 |
| - Timer_RST                                |           | 1                                                                               |         | RCS-166 |
| - Max_RST                                  |           |                                                                                 |         | RCS-167 |
| - Polling info                             |           | 200                                                                             |         | RCS-168 |
| - Timer_poll_prohibit                      |           | 200                                                                             |         | RCS-169 |
| - Timer_poll                               |           | Not Present                                                                     |         | RCS-170 |
| - Poll_PDU                                 |           | 1                                                                               |         | RCS-171 |
| - Poll_SDU                                 |           | TRUE                                                                            |         | RCS-172 |
| - Last transmission PDU poll               |           | TRUE                                                                            |         | RCS-173 |
| - Last retransmission PDU poll             |           | 99                                                                              |         | RCS-174 |
| - Poll_Window                              |           | Not Present                                                                     |         | RCS-175 |
| - Timer_poll_periodic                      |           | AM RLC                                                                          |         | RCS-176 |
| - CHOICE Downlink RLC mode                 |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | Rel-6   | RCS-177 |
| - DL RLC PDU size                          |           | TRUE                                                                            |         | RCS-178 |
| - In-sequence delivery                     |           | 32                                                                              |         | RCS-179 |
| - Receiving window size                    |           |                                                                                 |         | RCS-180 |
| - Downlink RLC status info                 |           | 200                                                                             |         | RCS-181 |
| - Timer_status_prohibit                    |           | Not Present                                                                     |         | RCS-182 |
| - Timer_EPC                                |           | TRUE                                                                            |         | RCS-183 |
| - Missing PDU indicator                    |           | Not Present                                                                     |         | RCS-184 |
| - Timer_STATUS_periodic                    |           |                                                                                 |         | RCS-185 |
| - RB mapping info                          |           | 2 RBMuxOptions                                                                  |         | RCS-186 |
| - Information for each multiplexing option |           |                                                                                 |         | RCS-187 |

| Information Element                     | Condition | Value/remark                                                                    | Version | Index   |
|-----------------------------------------|-----------|---------------------------------------------------------------------------------|---------|---------|
| - RLC logical channel mapping indicator |           | Not Present                                                                     |         | RCS-188 |
| - Number of RLC logical channels        |           | 1                                                                               |         | RCS-189 |
| - Uplink transport channel type         |           | DCH                                                                             |         | RCS-190 |
| - UL Transport channel identity         |           | 5                                                                               |         | RCS-191 |
| - Logical channel identity              |           | 2                                                                               |         | RCS-192 |
| - CHOICE RLC size list                  |           | Configured                                                                      |         | RCS-193 |
| - MAC logical channel priority          |           | 2                                                                               |         | RCS-194 |
| - Downlink RLC logical channel info     |           |                                                                                 |         | RCS-195 |
| - Number of RLC logical channels        |           | 1                                                                               |         | RCS-196 |
| - Downlink transport channel type       |           | DCH                                                                             |         | RCS-197 |
| - DL DCH Transport channel identity     |           | 10                                                                              |         | RCS-198 |
| - DL DSCH Transport channel identity    |           | Not Present                                                                     |         | RCS-199 |
| - Logical channel identity              |           | 2                                                                               |         | RCS-200 |
| - RLC logical channel mapping indicator |           | Not Present                                                                     |         | RCS-201 |
| - Number of RLC logical channels        |           | 1                                                                               |         | RCS-202 |
| - Uplink transport channel type         |           | RACH                                                                            |         | RCS-203 |
| - UL Transport channel identity         |           | Not Present                                                                     |         | RCS-204 |
| - Logical channel identity              |           | 2                                                                               |         | RCS-205 |
| - CHOICE RLC size list                  |           | Explicit List                                                                   |         | RCS-206 |
| - RLC size index                        |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RCS-207 |
| - MAC logical channel priority          |           | 2                                                                               |         | RCS-208 |
| - Downlink RLC logical channel info     |           |                                                                                 |         | RCS-209 |
| - Number of RLC logical channels        |           | 1                                                                               |         | RCS-210 |
| - Downlink transport channel type       |           | FACH                                                                            |         | RCS-211 |
| - DL DCH Transport channel identity     |           | Not Present                                                                     |         | RCS-212 |
| - DL DSCH Transport channel identity    |           | Not Present                                                                     |         | RCS-213 |
| - Logical channel identity              |           | 2                                                                               |         | RCS-214 |
| - Signalling RB information to setup    | A2        | (AM DCCH for RRC)                                                               | Rel-6   | RCS-215 |
| - RB identity                           |           | Not Present                                                                     |         | RCS-216 |
| - CHOICE RLC info type                  |           |                                                                                 |         | RCS-217 |
| - RLC info                              |           |                                                                                 |         | RCS-218 |
| - CHOICE Uplink RLC mode                |           | AM RLC                                                                          |         | RCS-219 |
| - Transmission RLC discard              |           |                                                                                 |         | RCS-220 |
| - SDU discard mode                      |           | No discard                                                                      |         | RCS-221 |
| - MAX_DAT                               |           | 15                                                                              |         | RCS-222 |
| - Transmission window size              |           | 32                                                                              |         | RCS-223 |
| - Timer_RST                             |           | 500                                                                             |         | RCS-224 |
| - Max_RST                               |           | 1                                                                               |         | RCS-225 |
| - Polling info                          |           |                                                                                 |         | RCS-226 |
| - Timer_poll_prohibit                   |           | 200                                                                             |         | RCS-227 |
| - Timer_poll                            |           | 200                                                                             |         | RCS-228 |
| - Poll_PDU                              |           | Not Present                                                                     |         | RCS-229 |
| - Poll_SDU                              |           | 1                                                                               |         | RCS-230 |
| - Last transmission PDU poll            |           | TRUE                                                                            |         | RCS-231 |
| - Last retransmission PDU poll          |           | TRUE                                                                            |         | RCS-232 |
| - Poll_Window                           |           | 99                                                                              |         | RCS-233 |
| - Timer_poll_periodic                   |           | Not Present                                                                     |         | RCS-234 |
| - CHOICE Downlink RLC mode              |           | AM RLC                                                                          |         | RCS-235 |
| - In-sequence delivery                  |           | TRUE                                                                            |         | RCS-236 |
| - Receiving window size                 |           | 32                                                                              |         | RCS-237 |
| - Downlink RLC status info              |           |                                                                                 |         | RCS-238 |
| - Timer_status_prohibit                 |           | 200                                                                             |         | RCS-239 |
| - Timer_EPC                             |           | Not Present                                                                     |         | RCS-240 |
| - Missing PDU indicator                 |           | TRUE                                                                            |         | RCS-241 |

| Information Element                        | Condition | Value/remark                        | Version | Index   |
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| - Timer_STATUS_periodic                    |           | Not Present                         |         | RCS-242 |
| - RB mapping info                          |           |                                     |         | RCS-243 |
| - Information for each multiplexing option |           | 1 RBMuxOption                       |         | RCS-244 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RCS-245 |
| - Number of RLC logical channels           |           | 1                                   |         | RCS-246 |
| - Uplink transport channel type            |           | E-DCH                               |         | RCS-247 |
| - Logical channel identity                 |           | 2                                   |         | RCS-248 |
| - E-DCH MAC-d flow identity                |           | 1                                   |         | RCS-249 |
| - DDI                                      |           | 2                                   |         | RCS-250 |
| - RLC PDU size list                        |           | 1 RLC PDU size                      |         | RCS-251 |
| - RLC PDU size                             |           | 144 bits                            |         | RCS-252 |
| - Include in scheduling info               |           | FALSE                               |         | RCS-253 |
| - MAC logical channel priority             |           | 2                                   |         | RCS-254 |
| - Downlink RLC logical channel info        |           |                                     |         | RCS-255 |
| - Number of RLC logical channels           |           | 1                                   |         | RCS-256 |
| - Downlink transport channel type          |           | HS-DSCH                             |         | RCS-257 |
| - DL DCH Transport channel identity        |           | Not Present                         |         | RCS-258 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RCS-259 |
| - DL HS-DSCH MAC-d flow identity           |           | 1                                   |         | RCS-260 |
| - Logical channel identity                 |           | 2                                   |         | RCS-261 |
| - Signalling RB information to setup       | A3        | (AM DCCH for RRC)                   | Rel-7   | RCS-262 |
|                                            | A5, A6    |                                     | Rel-8   | RCS-263 |
| - RB identity                              |           | Not present                         |         | RCS-264 |
| - CHOICE RLC info type                     |           |                                     |         | RCS-265 |
| - RLC info                                 |           |                                     |         | RCS-266 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                              |         | RCS-267 |
| - Transmission RLC discard                 |           |                                     |         | RCS-268 |
| - SDU discard mode                         |           | No discard                          |         | RCS-269 |
| - MAX_DAT                                  |           | 15                                  |         | RCS-270 |
| - Transmission window size                 |           | 32                                  |         | RCS-271 |
| - Timer_RST                                |           | 500                                 |         | RCS-272 |
| - Max_RST                                  |           | 1                                   |         | RCS-273 |
| - Polling info                             |           |                                     |         | RCS-274 |
| - Timer_poll_prohibit                      |           | 200                                 |         | RCS-275 |
| - Timer_poll                               |           | 200                                 |         | RCS-276 |
| - Poll_PDU                                 |           | Not Present                         |         | RCS-277 |
| - Poll_SDU                                 |           | 1                                   |         | RCS-278 |
| - Last transmission PDU poll               |           | TRUE                                |         | RCS-279 |
| - Last retransmission PDU poll             |           | TRUE                                |         | RCS-280 |
| - Poll_Window                              |           | 99                                  |         | RCS-281 |
| - Timer_poll_periodic                      |           | Not Present                         |         | RCS-282 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                              |         | RCS-283 |
| - CHOICE Downlink RLC PDU Size             |           | Reference to clause 6 Parameter Set |         | RCS-284 |
| - Length indicator size                    |           | 7                                   |         | RCS-285 |
| - In-sequence delivery                     |           | TRUE                                |         | RCS-286 |
| - Receiving window size                    |           | 32                                  |         | RCS-287 |
| - Downlink RLC status info                 |           |                                     |         | RCS-288 |
| - Timer_status_prohibit                    |           | 200                                 |         | RCS-289 |
| - Timer_EPC                                |           | Not Present                         |         | RCS-290 |
| - Missing PDU indicator                    |           | TRUE                                |         | RCS-291 |
| - Timer_STATUS_periodic                    |           | Not Present                         |         | RCS-292 |
| - Alternative E-bit interpretation         |           | Not Present                         |         | RCS-293 |
| - Use special value of HE field            |           | TRUE                                |         | RCS-294 |
| - RB mapping info                          |           |                                     |         | RCS-295 |
| - Information for each multiplexing option |           | 1 RBMuxOption                       |         | RCS-296 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RCS-297 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Condition | Value/remark                        | Version | Index   |
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| <ul style="list-style-type: none"> <li>- Number of RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- DDI</li> <li>- CHOICE RLC PDU size</li> <li>- RLC PDU size list</li> <li>- RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i></li> <li>- DL HS-DSCH MAC-ehs</li> <li>Queue Id</li> <li>- Logical channel identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                   | Rel-8   | RCS-298 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 144 bits                            |         | RCS-305 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 1                                   |         | RCS-309 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not Present                         |         | RCS-311 |
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| <ul style="list-style-type: none"> <li>- CHOICE <i>DL MAC header type</i></li> <li>- DL HS-DSCH MAC-ehs</li> <li>Queue Id</li> <li>- Logical channel identity</li> <li>- Signalling RB information to setup</li> <li>- RB identity</li> <li>- CHOICE RLC info type</li> <li>- RLC info</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- SDU discard mode</li> <li>- MAX_DAT</li> <li>- Transmission window size</li> <li>- Timer_RST</li> <li>- Max_RST</li> <li>- Polling info</li> <li>- Timer_poll_prohibit</li> <li>- Timer_poll</li> <li>- Poll_PDU</li> <li>- Poll_SDU</li> <li>- Last transmission PDU poll</li> <li>- Last retransmission PDU poll</li> <li>- Poll_Window</li> <li>- Timer_poll_periodic</li> <li>- CHOICE Downlink RLC mode</li> <li>- CHOICE Downlink RLC PDU Size</li> <li>- Length indicator size</li> <li>- In-sequence delivery</li> <li>- Receiving window size</li> <li>- Downlink RLC status info</li> <li>- Timer_status_prohibit</li> <li>- Timer_EPC</li> <li>- Missing PDU indicator</li> <li>- Timer_STATUS_periodic</li> <li>- Alternative E-bit interpretation</li> <li>- Use special value of HE field</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> </ul> | A4        | MAC-ehs                             |         | RCS-313 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 1                                   |         | RCS-314 |
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| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Condition | Value/remark                                                                    | Version | Index   |
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| info<br>type<br>identity<br>identity<br>Queue Id                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | - RLC size index                                                                |         | RCS-356 |
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| - Signalling RB information to setup<br>- RB identity<br>- CHOICE RLC info type<br>- RLC info<br>- CHOICE Uplink RLC mode<br>- Transmission RLC discard<br>- SDU discard mode<br>- MAX_DAT<br>- Transmission window size<br>- Timer_RST<br>- Max_RST<br>- Polling info<br>- Timer_poll_prohibit<br>- Timer_poll<br>- Poll_PDU<br>- Poll_SDU<br>- Last transmission PDU poll<br>- Last retransmission PDU poll<br>- Poll_Window<br>- Timer_poll_periodic<br>- CHOICE Downlink RLC mode<br>- DL RLC PDU size<br><br>- In-sequence delivery<br>- Receiving window size<br>- Downlink RLC status info<br>- Timer_status_prohibit<br>- Timer_EPC<br>- Missing PDU indicator<br>- Timer_STATUS_periodic<br>- RB mapping info<br>- Information for each multiplexing<br>option<br>indicator<br>info<br>channels<br>type<br>identity<br>identity | A1        | (AM DCCH for NAS_DT High priority)                                              | Rel-6   | RCS-365 |
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| Information Element                        | Condition | Value/remark                                                                    | Version | Index   |
|--------------------------------------------|-----------|---------------------------------------------------------------------------------|---------|---------|
| - RLC logical channel mapping indicator    |           | Not Present                                                                     |         | RCS-409 |
| - Number of RLC logical channels           |           | 1                                                                               |         | RCS-410 |
| - Uplink transport channel type            |           | RACH                                                                            |         | RCS-411 |
| - UL Transport channel identity            |           | Not Present                                                                     |         | RCS-412 |
| - Logical channel identity                 |           | 3                                                                               |         | RCS-413 |
| - CHOICE RLC size list                     |           | Explicit List                                                                   |         | RCS-414 |
| - RLC size index                           |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RCS-415 |
| - MAC logical channel priority             |           | 3                                                                               |         | RCS-416 |
| - Downlink RLC logical channel info        |           |                                                                                 |         | RCS-417 |
| - Number of RLC logical channels           |           | 1                                                                               |         | RCS-418 |
| - Downlink transport channel type          |           | FACH                                                                            |         | RCS-419 |
| - DL DCH Transport channel identity        |           | Not Present                                                                     |         | RCS-420 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                     |         | RCS-421 |
| - Logical channel identity                 |           | 3                                                                               |         | RCS-422 |
| - Signalling RB information to setup       | A2        | (AM DCCH for NAS_DT High priority)                                              | Rel-6   | RCS-423 |
| - RB identity                              |           | Not Present                                                                     |         | RCS-424 |
| - CHOICE RLC info type                     |           |                                                                                 |         | RCS-425 |
| - RLC info                                 |           |                                                                                 |         | RCS-426 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                                                                          |         | RCS-427 |
| - Transmission RLC discard                 |           |                                                                                 |         | RCS-428 |
| - SDU discard mode                         |           | No discard                                                                      |         | RCS-429 |
| - MAX_DAT                                  |           | 15                                                                              |         | RCS-430 |
| - Transmission window size                 |           | 32                                                                              |         | RCS-431 |
| - Timer_RST                                |           | 500                                                                             |         | RCS-432 |
| - Max_RST                                  |           | 1                                                                               |         | RCS-433 |
| - Polling info                             |           |                                                                                 |         | RCS-434 |
| - Timer_poll_prohibit                      |           | 200                                                                             |         | RCS-435 |
| - Timer_poll                               |           | 200                                                                             |         | RCS-436 |
| - Poll_PDU                                 |           | Not present                                                                     |         | RCS-437 |
| - Poll_SDU                                 |           | 1                                                                               |         | RCS-438 |
| - Last transmission PDU poll               |           | TRUE                                                                            |         | RCS-439 |
| - Last retransmission PDU poll             |           | TRUE                                                                            |         | RCS-440 |
| - Poll_Window                              |           | 99                                                                              |         | RCS-441 |
| - Timer_poll_periodic                      |           | Not Present                                                                     |         | RCS-442 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                                                                          |         | RCS-443 |
| - In-sequence delivery                     |           | TRUE                                                                            |         | RCS-444 |
| - Receiving window size                    |           | 32                                                                              |         | RCS-445 |
| - Downlink RLC status info                 |           |                                                                                 |         | RCS-446 |
| - Timer_status_prohibit                    |           | 200                                                                             |         | RCS-447 |
| - Timer_EPC                                |           | Not present                                                                     |         | RCS-448 |
| - Missing PDU indicator                    |           | TRUE                                                                            |         | RCS-449 |
| - Timer_STATUS_periodic                    |           | Not Present                                                                     |         | RCS-450 |
| - RB mapping info                          |           |                                                                                 |         | RCS-451 |
| - Information for each multiplexing option |           | 1 RBMuxOption                                                                   |         | RCS-452 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                     |         | RCS-453 |
| - Number of RLC logical channels           |           | 1                                                                               |         | RCS-454 |
| - Uplink transport channel type            |           | E-DCH                                                                           |         | RCS-455 |
| - Logical channel identity                 |           | 3                                                                               |         | RCS-456 |
| - E-DCH MAC-d flow identity                |           | 1                                                                               |         | RCS-457 |
| - DDI                                      |           | 3                                                                               |         | RCS-458 |
| - RLC PDU size list                        |           | 1 RLC PDU size                                                                  |         | RCS-459 |
| - RLC PDU size                             |           | 144 bits                                                                        |         | RCS-460 |
| - Include in scheduling info               |           | FALSE                                                                           |         | RCS-461 |
| - MAC logical channel priority             |           | 3                                                                               |         | RCS-462 |
| - Downlink RLC logical channel info        |           |                                                                                 |         | RCS-463 |
| - Number of RLC logical channels           |           | 1                                                                               |         | RCS-464 |

| Information Element                        | Condition | Value/remark                        | Version | Index   |
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| - Downlink transport channel type          |           | HS-DSCH                             |         | RCS-465 |
| - DL DCH Transport channel identity        |           | Not Present                         |         | RCS-466 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RCS-467 |
| - DL HS-DSCH MAC-d flow identity           |           | 1                                   |         | RCS-468 |
| - Logical channel identity                 |           | 3                                   |         | RCS-469 |
| - Signalling RB information to setup       | A3        | (AM DCCH for NAS_DT High priority)  | Rel-7   | RCS-470 |
|                                            | A5, A6    |                                     | Rel-8   | RCS-471 |
| - RB identity                              |           | Not present                         |         | RCS-472 |
| - CHOICE RLC info type                     |           |                                     |         | RCS-473 |
| - RLC info                                 |           |                                     |         | RCS-474 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                              |         | RCS-475 |
| - Transmission RLC discard                 |           |                                     |         | RCS-476 |
| - SDU discard mode                         |           | No discard                          |         | RCS-477 |
| - MAX_DAT                                  |           | 15                                  |         | RCS-478 |
| - Transmission window size                 |           | 32                                  |         | RCS-479 |
| - Timer_RST                                |           | 500                                 |         | RCS-480 |
| - Max_RST                                  |           | 1                                   |         | RCS-481 |
| - Polling info                             |           |                                     |         | RCS-482 |
| - Timer_poll_prohibit                      |           | 200                                 |         | RCS-483 |
| - Timer_poll                               |           | 200                                 |         | RCS-484 |
| - Poll_PDU                                 |           | Not Present                         |         | RCS-485 |
| - Poll_SDU                                 |           | 1                                   |         | RCS-486 |
| - Last transmission PDU poll               |           | TRUE                                |         | RCS-487 |
| - Last retransmission PDU poll             |           | TRUE                                |         | RCS-488 |
| - Poll_Window                              |           | 99                                  |         | RCS-489 |
| - Timer_poll_periodic                      |           | Not Present                         |         | RCS-490 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                              |         | RCS-491 |
| - CHOICE Downlink RLC PDU                  |           | Reference to clause 6 Parameter Set |         | RCS-492 |
| - Length indicator size                    |           | 7                                   |         | RCS-493 |
| - In-sequence delivery                     |           | TRUE                                |         | RCS-494 |
| - Receiving window size                    |           | 32                                  |         | RCS-495 |
| - Downlink RLC status info                 |           |                                     |         | RCS-496 |
| - Timer_status_prohibit                    |           | 200                                 |         | RCS-497 |
| - Timer_EPC                                |           | Not Present                         |         | RCS-498 |
| - Missing PDU indicator                    |           | TRUE                                |         | RCS-499 |
| - Timer_STATUS_periodic                    |           | Not Present                         |         | RCS-500 |
| - Alternative E-bit interpretation         |           | Not Present                         |         | RCS-501 |
| - Use special value of HE field            |           | TRUE                                |         | RCS-502 |
| - RB mapping info                          |           |                                     |         | RCS-503 |
| - Information for each multiplexing option |           | 1 RBMuxOption                       |         | RCS-504 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RCS-505 |
| - Number of RLC logical channels           |           | 1                                   |         | RCS-506 |
| - Uplink transport channel type            |           | E-DCH                               |         | RCS-507 |
| - Logical channel identity                 |           | 3                                   |         | RCS-508 |
| - E-DCH MAC-d flow identity                |           | 1                                   |         | RCS-509 |
| - CHOICE RLC PDU size                      |           | Fixed size                          | Rel-8   | RCS-510 |
| - DDI                                      |           | 2                                   |         | RCS-511 |
| - RLC PDU size list                        |           | 1 RLC PDU size                      |         | RCS-512 |
| - RLC PDU size                             |           | 144 bits                            |         | RCS-513 |
| - Include in scheduling info               |           | FALSE                               |         | RCS-514 |
| - MAC logical channel priority             |           | 3                                   |         | RCS-515 |
| - Downlink RLC logical channel info        |           |                                     |         | RCS-516 |
| - Number of RLC logical channels           |           | 1                                   |         | RCS-517 |
| - Downlink transport channel type          |           | HS-DSCH                             |         | RCS-518 |
| - DL DCH Transport channel identity        |           | Not Present                         |         | RCS-519 |
| - DL DSCH Transport channel                |           | Not Present                         |         | RCS-520 |

| Information Element                  | Condition | Value/remark                                             | Version | Index   |
|--------------------------------------|-----------|----------------------------------------------------------|---------|---------|
| identity                             |           |                                                          |         |         |
| - CHOICE <i>DL MAC header type</i>   |           | MAC-ehs                                                  |         | RCS-521 |
| - DL HS-DSCH MAC-ehs                 |           | 1                                                        |         | RCS-522 |
| Queue Id                             |           |                                                          |         |         |
| - Logical channel identity           |           | 3                                                        |         | RCS-523 |
| - Signalling RB information to setup | A4        | (AM DCCH for NAS_DT High priority)                       | Rel-7   | RCS-524 |
| - RB identity                        |           | Not present                                              |         | RCS-525 |
| - CHOICE RLC info type               |           |                                                          |         | RCS-526 |
| - RLC info                           |           |                                                          |         | RCS-527 |
| - CHOICE Uplink RLC mode             |           | AM RLC                                                   |         | RCS-528 |
| - Transmission RLC discard           |           |                                                          |         | RCS-529 |
| - SDU discard mode                   |           | No discard                                               |         | RCS-530 |
| - MAX_DAT                            |           | 15                                                       |         | RCS-531 |
| - Transmission window size           |           | 32                                                       |         | RCS-532 |
| - Timer_RST                          |           | 500                                                      |         | RCS-533 |
| - Max_RST                            |           | 1                                                        |         | RCS-534 |
| - Polling info                       |           |                                                          |         | RCS-535 |
| - Timer_poll_prohibit                |           | 200                                                      |         | RCS-536 |
| - Timer_poll                         |           | 200                                                      |         | RCS-537 |
| - Poll_PDU                           |           | Not Present                                              |         | RCS-538 |
| - Poll_SDU                           |           | 1                                                        |         | RCS-539 |
| - Last transmission PDU poll         |           | TRUE                                                     |         | RCS-540 |
| - Last retransmission PDU poll       |           | TRUE                                                     |         | RCS-541 |
| - Poll_Window                        |           | 99                                                       |         | RCS-542 |
| - Timer_poll_periodic                |           | Not Present                                              |         | RCS-543 |
| - CHOICE Downlink RLC mode           |           | AM RLC                                                   |         | RCS-544 |
| - CHOICE Downlink RLC PDU            |           | Reference to clause 6 Parameter Set                      |         | RCS-545 |
| Size                                 |           |                                                          |         |         |
| - Length indicator size              |           | 7                                                        |         | RCS-546 |
| - In-sequence delivery               |           | TRUE                                                     |         | RCS-547 |
| - Receiving window size              |           | 32                                                       |         | RCS-548 |
| - Downlink RLC status info           |           |                                                          |         | RCS-549 |
| - Timer_status_prohibit              |           | 200                                                      |         | RCS-550 |
| - Timer_EPC                          |           | Not Present                                              |         | RCS-551 |
| - Missing PDU indicator              |           | TRUE                                                     |         | RCS-552 |
| - Timer_STATUS_periodic              |           | Not Present                                              |         | RCS-553 |
| - Alternative E-bit interpretation   |           | Not Present                                              |         | RCS-554 |
| - Use special value of HE field      |           | Not Present                                              |         | RCS-555 |
| - RB mapping info                    |           |                                                          |         | RCS-556 |
| - Information for each multiplexing  |           | 1 RBMuxOption                                            |         | RCS-557 |
| option                               |           |                                                          |         |         |
| - RLC logical channel mapping        |           | Not Present                                              |         | RCS-558 |
| indicator                            |           |                                                          |         |         |
| - Number of RLC logical channels     |           | 1                                                        |         | RCS-559 |
| - Uplink transport channel type      |           | RACH                                                     |         | RCS-560 |
| - UL Transport channel identity      |           | Not Present                                              |         | RCS-561 |
| - Logical channel identity           |           | 3                                                        |         | RCS-562 |
| - CHOICE RLC size list               |           | Explicit List                                            |         | RCS-563 |
| - RLC size index                     |           | According to clause 6.10.2.4.4.1 (combinations on PRACH) |         | RCS-564 |
| - MAC logical channel priority       |           | 3                                                        |         | RCS-565 |
| - Downlink RLC logical channel       |           |                                                          |         | RCS-566 |
| info                                 |           |                                                          |         |         |
| - Number of RLC logical              |           | 1                                                        |         | RCS-567 |
| channels                             |           |                                                          |         |         |
| - Downlink transport channel         |           | HS-DSCH                                                  |         | RCS-568 |
| type                                 |           |                                                          |         |         |
| - DL DCH Transport channel           |           | Not Present                                              |         | RCS-569 |
| identity                             |           |                                                          |         |         |
| - DL DSCH Transport channel          |           | Not Present                                              |         | RCS-570 |
| identity                             |           |                                                          |         |         |
| - CHOICE <i>DL MAC header type</i>   |           | MAC-ehs                                                  |         | RCS-571 |
| - DL HS-DSCH MAC-ehs                 |           | 1                                                        |         | RCS-572 |
| Queue Id                             |           |                                                          |         |         |
| - Logical channel identity           |           | 3                                                        |         | RCS-573 |
| - Signalling RB information to setup | A1        | (AM DCCH for NAS_DT Low priority)                        |         | RCS-574 |
| - RB identity                        |           | Not Present                                              |         | RCS-575 |

| Information Element                        | Condition | Value/remark                                                                    | Version | Index   |
|--------------------------------------------|-----------|---------------------------------------------------------------------------------|---------|---------|
| - CHOICE RLC info type                     |           |                                                                                 |         | RCS-576 |
| - RLC info                                 |           |                                                                                 |         | RCS-577 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                                                                          |         | RCS-578 |
| - Transmission RLC discard                 |           |                                                                                 |         | RCS-579 |
| - SDU discard mode                         |           | No discard                                                                      |         | RCS-580 |
| - MAX_DAT                                  |           | 15                                                                              |         | RCS-581 |
| - Transmission window size                 |           | 32                                                                              |         | RCS-582 |
| - Timer_RST                                |           | 500                                                                             |         | RCS-583 |
| - Max_RST                                  |           | 1                                                                               |         | RCS-584 |
| - Polling info                             |           |                                                                                 |         | RCS-585 |
| - Timer_poll_prohibit                      |           | 200                                                                             |         | RCS-586 |
| - Timer_poll                               |           | 200                                                                             |         | RCS-587 |
| - Poll_PDU                                 |           | Not present                                                                     |         | RCS-588 |
| - Poll_SDU                                 |           | 1                                                                               |         | RCS-589 |
| - Last transmission PDU poll               |           | TRUE                                                                            |         | RCS-590 |
| - Last retransmission PDU poll             |           | TRUE                                                                            |         | RCS-591 |
| - Poll_Window                              |           | 99                                                                              |         | RCS-592 |
| - Timer_poll_periodic                      |           | Not Present                                                                     |         | RCS-593 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                                                                          |         | RCS-594 |
| - DL RLC PDU size                          |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | Rel-6   | RCS-595 |
| - In-sequence delivery                     |           | TRUE                                                                            |         | RCS-596 |
| - Receiving window size                    |           | 32                                                                              |         | RCS-597 |
| - Downlink RLC status info                 |           |                                                                                 |         | RCS-598 |
| - Timer_status_prohibit                    |           | 200                                                                             |         | RCS-599 |
| - Timer_EPC                                |           | Not Present                                                                     |         | RCS-600 |
| - Missing PDU indicator                    |           | TRUE                                                                            |         | RCS-601 |
| - Timer_STATUS_periodic                    |           | Not Present                                                                     |         | RCS-602 |
| - RB mapping info                          |           |                                                                                 |         | RCS-603 |
| - Information for each multiplexing option |           | 2 RBMuxOptions                                                                  |         | RCS-604 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                     |         | RCS-605 |
| - Number of RLC logical channels           |           | 1                                                                               |         | RCS-606 |
| - Uplink transport channel type            |           | DCH                                                                             |         | RCS-607 |
| - UL Transport channel identity            |           | 5                                                                               |         | RCS-608 |
| - Logical channel identity                 |           | 4                                                                               |         | RCS-609 |
| - CHOICE RLC size list                     |           | Configured                                                                      |         | RCS-610 |
| - MAC logical channel priority             |           | 4                                                                               |         | RCS-611 |
| - Downlink RLC logical channel info        |           |                                                                                 |         | RCS-612 |
| - Number of RLC logical channels           |           | 1                                                                               |         | RCS-613 |
| - Downlink transport channel type          |           | DCH                                                                             |         | RCS-614 |
| - DL DCH Transport channel identity        |           | 10                                                                              |         | RCS-615 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                     |         | RCS-616 |
| - Logical channel identity                 |           | 4                                                                               |         | RCS-617 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                     |         | RCS-618 |
| - Number of RLC logical channels           |           | 1                                                                               |         | RCS-619 |
| - Uplink transport channel type            |           | RACH                                                                            |         | RCS-620 |
| - UL Transport channel identity            |           | Not Present                                                                     |         | RCS-621 |
| - Logical channel identity                 |           | 4                                                                               |         | RCS-622 |
| - CHOICE RLC size list                     |           | Explicit List                                                                   |         | RCS-623 |
| - RLC size index                           |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RCS-624 |
| - MAC logical channel priority             |           | 4                                                                               |         | RCS-625 |
| - Downlink RLC logical channel info        |           |                                                                                 |         | RCS-626 |
| - Number of RLC logical channels           |           | 1                                                                               |         | RCS-627 |
| - Downlink transport channel type          |           | FACH                                                                            |         | RCS-628 |
| - DL DCH Transport channel                 |           | Not Present                                                                     |         | RCS-629 |

| Information Element                  | Condition | Value/remark                      | Version | Index   |
|--------------------------------------|-----------|-----------------------------------|---------|---------|
| identity                             |           | Not Present                       |         | RCS-630 |
| - DL DSCH Transport channel identity |           |                                   |         |         |
| - Logical channel identity           |           | 4                                 |         | RCS-631 |
| - Signalling RB information to setup | A2        | (AM DCCH for NAS_DT Low priority) | Rel-6   | RCS-632 |
| - RB identity                        |           | Not Present                       |         | RCS-633 |
| - CHOICE RLC info type               |           |                                   |         | RCS-634 |
| - RLC info                           |           |                                   |         | RCS-635 |
| - CHOICE Uplink RLC mode             |           | AM RLC                            |         | RCS-636 |
| - Transmission RLC discard           |           |                                   |         | RCS-637 |
| - SDU discard mode                   |           | No discard                        |         | RCS-638 |
| - MAX_DAT                            |           | 15                                |         | RCS-639 |
| - Transmission window size           |           | 32                                |         | RCS-640 |
| - Timer_RST                          |           | 500                               |         | RCS-641 |
| - Max_RST                            |           | 1                                 |         | RCS-642 |
| - Polling info                       |           |                                   |         | RCS-643 |
| - Timer_poll_prohibit                |           | 200                               |         | RCS-644 |
| - Timer_poll                         |           | 200                               |         | RCS-645 |
| - Poll_PDU                           |           | Not present                       |         | RCS-646 |
| - Poll_SDU                           |           | 1                                 |         | RCS-647 |
| - Last transmission PDU poll         |           | TRUE                              |         | RCS-648 |
| - Last retransmission PDU poll       |           | TRUE                              |         | RCS-649 |
| - Poll_Window                        |           | 99                                |         | RCS-650 |
| - Timer_poll_periodic                |           | Not Present                       |         | RCS-651 |
| - CHOICE Downlink RLC mode           |           | AM RLC                            |         | RCS-652 |
| - In-sequence delivery               |           | TRUE                              |         | RCS-653 |
| - Receiving window size              |           | 32                                |         | RCS-654 |
| - Downlink RLC status info           |           |                                   |         | RCS-655 |
| - Timer_status_prohibit              |           | 200                               |         | RCS-656 |
| - Timer_EPC                          |           | Not Present                       |         | RCS-657 |
| - Missing PDU indicator              |           | TRUE                              |         | RCS-658 |
| - Timer_STATUS_periodic              |           | Not Present                       |         | RCS-659 |
| - RB mapping info                    |           |                                   |         | RCS-660 |
| - Information for each multiplexing  |           | 1 RBMuxOption                     |         | RCS-661 |
| option                               |           |                                   |         |         |
| - RLC logical channel mapping        |           | Not Present                       |         | RCS-662 |
| indicator                            |           |                                   |         |         |
| - Number of RLC logical channels     |           | 1                                 |         | RCS-663 |
| - Uplink transport channel type      |           | E-DCH                             |         | RCS-664 |
| - Logical channel identity           |           | 4                                 |         | RCS-665 |
| - E-DCH MAC-d flow identity          |           | 1                                 |         | RCS-666 |
| - DDI                                |           | 4                                 |         | RCS-667 |
| - RLC PDU size list                  |           | 1 RLC PDU size                    |         | RCS-668 |
| - RLC PDU size                       |           | 144 bits                          |         | RCS-669 |
| - Include in scheduling info         |           | FALSE                             |         | RCS-670 |
| - MAC logical channel priority       |           | 4                                 |         | RCS-671 |
| - Downlink RLC logical channel       |           |                                   |         | RCS-672 |
| info                                 |           |                                   |         |         |
| - Number of RLC logical              |           | 1                                 |         | RCS-673 |
| channels                             |           |                                   |         |         |
| - Downlink transport channel         |           | HS-DSCH                           |         | RCS-674 |
| type                                 |           |                                   |         |         |
| - DL DCH Transport channel           |           | Not Present                       |         | RCS-675 |
| identity                             |           |                                   |         |         |
| - DL DSCH Transport channel          |           | Not Present                       |         | RCS-676 |
| identity                             |           |                                   |         |         |
| - DL HS-DSCH MAC-d flow              |           | 1                                 |         | RCS-677 |
| identity                             |           |                                   |         |         |
| - Logical channel identity           |           | 4                                 |         | RCS-678 |
| - Signalling RB information to setup | A3, A5    | (AM DCCH for NAS DT Low priority) | Rel-7   | RCS-679 |
|                                      | , A6      |                                   | Rel-8   |         |
| - RB identity                        |           | Not present                       |         | RCS-680 |
| - CHOICE RLC info type               |           |                                   |         | RCS-681 |
| - RLC info                           |           |                                   |         | RCS-682 |
| - CHOICE Uplink RLC mode             |           | AM RLC                            |         | RCS-683 |
| - Transmission RLC discard           |           |                                   |         | RCS-684 |
| - SDU discard mode                   |           | No discard                        |         | RCS-685 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition | Value/remark                        | Version | Index   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------|---------|---------|
| <ul style="list-style-type: none"> <li>- MAX_DAT</li> <li>- Transmission window size</li> <li>- Timer_RST</li> <li>- Max_RST</li> <li>- Polling info</li> <li>- Timer_poll_prohibit</li> <li>- Timer_poll</li> <li>- Poll_PDU</li> <li>- Poll_SDU</li> <li>- Last transmission PDU poll</li> <li>- Last retransmission PDU poll</li> <li>- Poll_Window</li> <li>- Timer_poll_periodic</li> <li>- CHOICE Downlink RLC mode</li> <li>- CHOICE Downlink RLC PDU</li> </ul> |           | 15                                  | Rel-8   | RCS-686 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 32                                  |         | RCS-687 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 500                                 |         | RCS-688 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                   |         | RCS-689 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         | RCS-690 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 200                                 |         | RCS-691 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 200                                 |         | RCS-692 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                         |         | RCS-693 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                   |         | RCS-694 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | TRUE                                |         | RCS-695 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | TRUE                                |         | RCS-696 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 99                                  |         | RCS-697 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                         |         | RCS-698 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | AM RLC                              |         | RCS-699 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6 Parameter Set |         | RCS-700 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 7                                   |         | RCS-701 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | TRUE                                |         | RCS-702 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 32                                  |         | RCS-703 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         | RCS-704 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 200                                 |         | RCS-705 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                         |         | RCS-706 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | TRUE                                |         | RCS-707 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                         |         | RCS-708 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                         |         | RCS-709 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | TRUE                                |         | RCS-710 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         | RCS-711 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1 RBMuxOption                       |         | RCS-712 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                         |         | RCS-713 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                   |         | RCS-714 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | E-DCH                               |         | RCS-715 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 4                                   |         | RCS-716 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                   |         | RCS-717 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Fixed size                          |         | RCS-718 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 2                                   |         | RCS-719 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1 RLC PDU size                      |         | RCS-720 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 144 bits                            |         | RCS-721 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | FALSE                               |         | RCS-722 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 4                                   |         | RCS-723 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         | RCS-724 |
| <ul style="list-style-type: none"> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel</li> <li>- DL DCH Transport channel</li> <li>- DL DSCH Transport channel</li> <li>- CHOICE DL MAC header type</li> <li>- DL HS-DSCH MAC-ehs</li> </ul>                                                                                                                                                                                                    |           | 1                                   | Rel-8   | RCS-725 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | HS-DSCH                             |         | RCS-726 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                         |         | RCS-727 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                         |         | RCS-728 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | MAC-ehs                             |         | RCS-729 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                   |         | RCS-730 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 4                                   |         | RCS-731 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         |         |
| <ul style="list-style-type: none"> <li>- Signalling RB information to setup</li> <li>- RB identity</li> <li>- CHOICE RLC info type</li> <li>- RLC info</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- SDU discard mode</li> <li>- MAX_DAT</li> <li>- Transmission window size</li> <li>- Timer_RST</li> <li>- Max_RST</li> <li>- Polling info</li> </ul>                                                                              | A4        | (AM DCCH for NAS DT Low priority)   | Rel-7   | RCS-732 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                         |         | RCS-733 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         | RCS-734 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         | RCS-735 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | AM RLC                              |         | RCS-736 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         | RCS-737 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | No discard                          |         | RCS-738 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 15                                  |         | RCS-739 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 32                                  |         | RCS-740 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 500                                 |         | RCS-741 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                   |         | RCS-742 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         | RCS-743 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                     |         |         |

| Information Element                                         | Condition | Value/remark                                                                                                        | Version | Index   |
|-------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------|---------|---------|
| - Timer_poll_prohibit                                       |           | 200                                                                                                                 |         | RCS-744 |
| - Timer_poll                                                |           | 200                                                                                                                 |         | RCS-745 |
| - Poll_PDU                                                  |           | Not Present                                                                                                         |         | RCS-746 |
| - Poll_SDU                                                  |           | 1                                                                                                                   |         | RCS-747 |
| - Last transmission PDU poll                                |           | TRUE                                                                                                                |         | RCS-748 |
| - Last retransmission PDU poll                              |           | TRUE                                                                                                                |         | RCS-749 |
| - Poll_Window                                               |           | 99                                                                                                                  |         | RCS-750 |
| - Timer_poll_periodic                                       |           | Not Present                                                                                                         |         | RCS-751 |
| - CHOICE Downlink RLC mode                                  |           | AM RLC                                                                                                              |         | RCS-752 |
| - CHOICE Downlink RLC PDU                                   |           | Reference to clause 6 Parameter Set                                                                                 |         | RCS-753 |
| Size                                                        |           |                                                                                                                     |         |         |
| - Length indicator size                                     |           | 7                                                                                                                   |         | RCS-754 |
| - In-sequence delivery                                      |           | TRUE                                                                                                                |         | RCS-755 |
| - Receiving window size                                     |           | 32                                                                                                                  |         | RCS-756 |
| - Downlink RLC status info                                  |           |                                                                                                                     |         | RCS-757 |
| - Timer_status_prohibit                                     |           | 200                                                                                                                 |         | RCS-758 |
| - Timer_EPC                                                 |           | Not Present                                                                                                         |         | RCS-759 |
| - Missing PDU indicator                                     |           | TRUE                                                                                                                |         | RCS-760 |
| - Timer_STATUS_periodic                                     |           | Not Present                                                                                                         |         | RCS-761 |
| - Alternative E-bit interpretation                          |           | Not Present                                                                                                         |         | RCS-762 |
| - Use special value of HE field                             |           | Not Present                                                                                                         |         | RCS-763 |
| - RB mapping info                                           |           |                                                                                                                     |         | RCS-764 |
| - Information for each multiplexing                         |           | 1 RBMuxOption                                                                                                       |         | RCS-765 |
| option                                                      |           |                                                                                                                     |         |         |
| - RLC logical channel mapping                               |           | Not Present                                                                                                         |         | RCS-766 |
| indicator                                                   |           |                                                                                                                     |         |         |
| - Number of RLC logical channels                            |           | 1                                                                                                                   |         | RCS-767 |
| - Uplink transport channel type                             |           | RACH                                                                                                                |         | RCS-768 |
| - UL Transport channel identity                             |           | Not Present                                                                                                         |         | RCS-769 |
| - Logical channel identity                                  |           | 4                                                                                                                   |         | RCS-770 |
| - CHOICE RLC size list                                      |           | Explicit List                                                                                                       |         | RCS-771 |
| - RLC size index                                            |           | According to clause 6.10.2.4.4.1 (Combinations on PRACH)                                                            |         | RCS-772 |
| - MAC logical channel priority                              |           | 4                                                                                                                   |         | RCS-773 |
| - Downlink RLC logical channel                              |           |                                                                                                                     |         | RCS-774 |
| info                                                        |           |                                                                                                                     |         |         |
| - Number of RLC logical                                     |           | 1                                                                                                                   |         | RCS-775 |
| channels                                                    |           |                                                                                                                     |         |         |
| - Downlink transport channel                                |           | HS-DSCH                                                                                                             |         | RCS-776 |
| type                                                        |           |                                                                                                                     |         |         |
| - DL DCH Transport channel                                  |           | Not Present                                                                                                         |         | RCS-777 |
| identity                                                    |           |                                                                                                                     |         |         |
| - DL DSCH Transport channel                                 |           | Not Present                                                                                                         |         | RCS-778 |
| identity                                                    |           |                                                                                                                     |         |         |
| - CHOICE <i>DL MAC header type</i>                          |           | MAC-ehs                                                                                                             |         | RCS-779 |
| - DL HS-DSCH MAC-ehs                                        |           | 1                                                                                                                   |         | RCS-780 |
| Queue Id                                                    |           |                                                                                                                     |         |         |
| - Logical channel identity                                  |           | 4                                                                                                                   |         | RCS-781 |
| UL Transport channel information for all transport channels | A1        |                                                                                                                     |         | RCS-782 |
| - PRACH TFCS                                                |           | Not Present                                                                                                         |         | RCS-783 |
| - CHOICE Mode                                               |           | FDD                                                                                                                 |         | RCS-784 |
| - TFC subset                                                |           | Nor Present                                                                                                         |         | RCS-785 |
| - UL DCH TFCS                                               |           |                                                                                                                     |         | RCS-786 |
| - CHOICE TFCI signalling                                    |           | Normal                                                                                                              |         | RCS-787 |
| - TFCI Field 1 information                                  |           |                                                                                                                     |         | RCS-788 |
| - CHOICE TFCS representation                                |           | Complete                                                                                                            |         | RCS-789 |
| - TFCS complete reconfigure                                 |           |                                                                                                                     |         | RCS-790 |
| - CHOICE CTFC Size                                          |           | 2bit CTFC                                                                                                           |         | RCS-791 |
| - CTFC information                                          |           | This IE is repeated for TFC numbers according to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RCS-792 |
| - CTFC                                                      |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)                                     |         | RCS-793 |
| - Power offset information                                  |           |                                                                                                                     |         | RCS-794 |
| - CHOICE Gain Factors                                       |           | Computed Gain Factors (The last TFC is set to Signalled Gain Factors)                                               |         | RCS-795 |



| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| - Gain factor $\beta_d$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| - Reference TFC ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| - Power offset Pp-m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| UL Transport channel information for all transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| UL Transport channel information for all transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Added or Reconfigured UL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| - Uplink transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| - UL Transport channel identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| - TFS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| - CHOICE Transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| - Dynamic Transport format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| - RLC size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| - Number of TBs and TTI lists                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| - Transmission Time Interval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| - Number of Transport blocks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| - CHOICE Logical channel list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| - Semi-static Transport Format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| - Transmission time interval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| - Type of channel coding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| - Coding Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| - Rate matching attribute                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| - CRC size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Added or Reconfigured UL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Interval<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>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| Information Element                                               | Condition | Value/remark                                                                                                | Version | Index   |
|-------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------|---------|---------|
| transmission grant HARQ process allocation                        |           |                                                                                                             |         |         |
| Added or Reconfigured UL TrCH information                         | A4        | Not Present                                                                                                 | Rel-7   | RCS-836 |
| Added or Reconfigured UL TrCH information                         | A5, A6    | 1 E-DCH added with one DCCH MAC-d flow                                                                      | Rel-8   | RCS-837 |
| - Uplink transport channel type                                   |           | E-DCH                                                                                                       |         | RCS-838 |
| - CHOICE UL parameters                                            |           | E-DCH                                                                                                       |         | RCS-839 |
| - UL MAC header type                                              |           | MAC-i/is                                                                                                    |         | RCS-840 |
| - E-DCH Transmission Time Interval                                |           | set to 2ms if supported by the UE E-DCH category, or 10ms if the UE E-DCH category does not support 2ms TTI |         | RCS-841 |
| - HARQ info for E-DCH                                             |           |                                                                                                             |         | RCS-842 |
| - HARQ RV Configuration                                           |           | rvtable                                                                                                     |         | RCS-843 |
| - Added or reconfigured E-DCH MAC-d flow                          |           | (for DCCH)                                                                                                  |         | RCS-844 |
| - E-DCH MAC-d flow identity                                       |           | 1                                                                                                           |         | RCS-845 |
| - E-DCH MAC-d flow power                                          |           | 0                                                                                                           |         | RCS-846 |
| offset                                                            |           |                                                                                                             |         |         |
| - E-DCH MAC-d flow maximum number of retransmissions              |           | 7                                                                                                           |         | RCS-847 |
| - E-DCH MAC-d flow multiplexing list                              |           | Not Present                                                                                                 |         | RCS-848 |
| - CHOICE transmission grant type                                  |           | Non-scheduled grant info                                                                                    |         | RCS-849 |
| - Max MAC-e PDU contents size                                     |           | 168 bits                                                                                                    |         | RCS-850 |
| - 2 ms non-scheduled transmission grant HARQ process allocation   |           | Not Present                                                                                                 |         | RCS-851 |
| DL Transport channel information common for all transport channel | A1        |                                                                                                             |         | RCS-852 |
| - SCCPCH TFCS                                                     |           | Not Present                                                                                                 |         | RCS-853 |
| - CHOICE mode                                                     |           | FDD                                                                                                         |         | RCS-854 |
| - CHOICE DL parameters                                            |           | Same as UL                                                                                                  |         | RCS-855 |
| DL Transport channel information common for all transport channel | A2        | Not Present                                                                                                 | Rel-6   | RCS-856 |
| DL Transport channel information common for all transport channel | A3, A4    | Not Present                                                                                                 | Rel-7   | RCS-857 |
|                                                                   | A5, A6    |                                                                                                             | Rel-8   | RCS-858 |
| Added or Reconfigured DL TrCH information                         | A1        |                                                                                                             |         | RCS-859 |
| - Downlink transport channel type                                 |           | DCH                                                                                                         |         | RCS-860 |
| - DL Transport channel identity                                   |           | 10                                                                                                          |         | RCS-861 |
| - CHOICE DL parameters                                            |           | Same as UL                                                                                                  |         | RCS-862 |
| - Uplink transport channel type                                   |           | DCH                                                                                                         |         | RCS-863 |
| - UL TrCH Identity                                                |           | 5                                                                                                           |         | RCS-864 |
| - DCH quality target                                              |           |                                                                                                             |         | RCS-865 |
| - BLER Quality value                                              |           | -20 (-2.0)                                                                                                  |         | RCS-866 |
| Added or Reconfigured DL TrCH information                         | A2        | 1 TrCH (HS-DSCH for DCCH)                                                                                   | Rel-6   | RCS-867 |
| - Downlink transport channel type                                 |           | HS-DSCH                                                                                                     |         | RCS-868 |
| - DL Transport channel identity                                   |           | Not Present                                                                                                 |         | RCS-869 |
| - CHOICE DL parameters                                            |           | HS-DSCH                                                                                                     |         | RCS-870 |
| - HARQ Info                                                       |           |                                                                                                             |         | RCS-871 |
| - Number of Processes                                             |           | Reference to clause 6.10.2.4.5 Parameter Set Implicit                                                       |         | RCS-872 |
| - CHOICE Memory                                                   |           |                                                                                                             |         | RCS-873 |
| Partitioning                                                      |           |                                                                                                             |         |         |
| - Added or reconfigured MAC-d flow                                |           |                                                                                                             |         | RCS-874 |
| - MAC-hs queue to add or reconfigure list                         |           | (one queue)                                                                                                 |         | RCS-875 |
| - MAC-hs queue Id                                                 |           | 1 (for DCCH)                                                                                                |         | RCS-876 |
| - MAC-d Flow Identity                                             |           | 1                                                                                                           |         | RCS-877 |
| - T1                                                              |           | 50                                                                                                          |         | RCS-878 |
| - MAC-hs window size                                              |           | 16                                                                                                          |         | RCS-879 |
| - MAC-d PDU size Info                                             |           |                                                                                                             |         | RCS-880 |

| Information Element                              | Condition | Value/remark                                                                    | Version | Index   |
|--------------------------------------------------|-----------|---------------------------------------------------------------------------------|---------|---------|
| - MAC-d PDU size                                 |           | 148                                                                             |         | RCS-881 |
| - MAC-d PDU size index                           |           | 0                                                                               |         | RCS-882 |
| - MAC-hs queue to delete list                    |           | Not present                                                                     |         | RCS-883 |
| - DCH quality target                             |           | Not present                                                                     |         | RCS-884 |
| Added or Reconfigured DL TrCH information        | A3        | 1 TrCH (HS-DSCH for DCCH)                                                       | Rel-7   | RCS-885 |
|                                                  | A5        |                                                                                 | Rel-8   | RCS-886 |
|                                                  | A4        |                                                                                 | Rel-7   |         |
|                                                  | A6        |                                                                                 | Rel-8   |         |
| - Downlink transport channel type                |           | HS-DSCH                                                                         |         | RCS-887 |
| - DL Transport channel identity                  |           | Not Present                                                                     |         | RCS-888 |
| - CHOICE DL parameters                           |           | HS-DSCH                                                                         |         | RCS-889 |
| - HARQ Info                                      |           |                                                                                 |         | RCS-890 |
| - Number of Processes                            |           | Reference to clause 6.10.2.4.5 Parameter Set Implicit                           |         | RCS-891 |
| - CHOICE Memory                                  |           |                                                                                 |         | RCS-892 |
| Partitioning                                     |           |                                                                                 |         |         |
| - CHOICE DL MAC header type                      |           | MAC-ehs                                                                         |         | RCS-893 |
| - Added or reconfigured MAC-ehs reordering queue |           |                                                                                 |         | RCS-894 |
| - MAC-ehs queue to add or reconfigure list       |           | (1 queue)                                                                       |         | RCS-895 |
| - MAC-ehs queue Id                               |           | 1                                                                               |         | RCS-896 |
| - T1                                             |           | 50                                                                              |         | RCS-897 |
| - MAC-ehs window size                            |           | 16                                                                              |         | RCS-898 |
| - MAC-ehs queue to delete list                   |           | Not present                                                                     |         | RCS-899 |
| - DCH quality target                             |           | Not present                                                                     |         | RCS-900 |
| Frequency info                                   |           | Not Present                                                                     |         | RCS-901 |
| DTX-DRX timing information                       |           | Not present                                                                     | Rel-7   | RCS-902 |
| DTX-DRX Information                              |           | Not present                                                                     | Rel-7   | RCS-903 |
| HS-SCCH less Information                         |           | Not present                                                                     | Rel-7   | RCS-904 |
| Maximum allowed UL TX power                      |           | Not Present                                                                     |         | RCS-905 |
| Uplink DPCH info                                 | A1        |                                                                                 |         | RCS-907 |
| - Uplink DPCH power control info                 |           |                                                                                 |         | RCS-908 |
| - DPCCCH power offset                            |           | -40 (-80dB)                                                                     |         | RCS-909 |
| - PC Preamble                                    |           | 1 frame                                                                         |         | RCS-910 |
| - SRB delay                                      |           | 7 frames                                                                        |         | RCS-911 |
| - Power Control Algorithm                        |           | Algorithm1                                                                      |         | RCS-912 |
| - TPC step size                                  |           | 0 (1dB)                                                                         |         | RCS-913 |
| - Scrambling code type                           |           | Long                                                                            |         | RCS-914 |
| - Scrambling code number                         |           | 0 (0 to 16777215)                                                               |         | RCS-915 |
| - Number of DPDCH                                |           | Not Present(1)                                                                  |         | RCS-916 |
| - Spreading factor                               |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RCS-917 |
| - TFCI existence                                 |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RCS-918 |
| - Number of FBI bit                              |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RCS-919 |
| - Puncturing Limit                               |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |         | RCS-920 |
| - Number of TPC bits                             |           | Not present                                                                     | Rel-7   | RCS-921 |
| Uplink DPCH info                                 | A2        |                                                                                 | Rel-6   | RCS-922 |
|                                                  | A3        |                                                                                 | Rel-7   | RCS-923 |
|                                                  | A5        |                                                                                 | Rel-8   | RCS-924 |
| - Uplink DPCH power control info                 |           |                                                                                 |         | RCS-925 |
| - DPCCCH power offset                            |           | -40 (-80dB)                                                                     |         | RCS-926 |
| - PC Preamble                                    |           | 1 frame                                                                         |         | RCS-927 |
| - SRB delay                                      |           | 7 frames                                                                        |         | RCS-928 |
| - Power Control Algorithm                        |           | Algorithm1                                                                      |         | RCS-929 |
| - TPC step size                                  |           | 0 (1dB)                                                                         |         | RCS-930 |
| - $\Delta_{ACK}$                                 |           | 3                                                                               |         | RCS-931 |
| - $\Delta_{NACK}$                                |           | 3                                                                               |         | RCS-932 |
| - Ack-Nack repetition factor                     |           | 1                                                                               |         | RCS-933 |
| - HARQ_preamble_mode                             |           | 0                                                                               |         | RCS-934 |
| - Scrambling code type                           |           | Long                                                                            |         | RCS-935 |
| - Scrambling code number                         |           | 0 (0 to 16777215)                                                               |         | RCS-936 |
| - Number of DPDCH                                |           | 0                                                                               |         | RCS-937 |
| - spreading factor                               |           | Not Present                                                                     |         | RCS-938 |

| Information Element                             | Condition | Value/remark                                    | Version | Index   |
|-------------------------------------------------|-----------|-------------------------------------------------|---------|---------|
| - TFCI existence                                |           | FALSE                                           |         | RCS-939 |
| - Number of FBI bit                             |           | Not Present                                     |         | RCS-940 |
| - Puncturing Limit                              |           | Not Present                                     |         | RCS-941 |
| Uplink DPCH info                                | A4        | Not Present                                     | Rel-7   | RCS-942 |
|                                                 | A6        |                                                 | Rel-8   |         |
| E-DCH Info                                      | A1        | Not Present                                     | Rel-6   | RCS-943 |
| E-DCH info                                      | A2        |                                                 | Rel-6   | RCS-944 |
|                                                 | A3        |                                                 | Rel-7   | RCS-945 |
|                                                 | A5        |                                                 | Rel-8   | RCS-946 |
| - MAC-es/e reset indicator                      |           | TRUE                                            |         | RCS-947 |
| - E-DPCCH info                                  |           |                                                 |         | RCS-948 |
| - E-DPCCH/DPCCH power offset                    |           | 0                                               |         | RCS-949 |
| - Happy bit delay condition                     |           | 100 ms                                          |         | RCS-950 |
| - E-TFC Boost Info                              |           | Not present                                     | Rel-7   | RCS-951 |
| - E-DPDCH power interpolation                   |           | Not present                                     | Rel-7   | RCS-952 |
| - E-DPDCH info                                  |           |                                                 |         | RCS-953 |
| - E-TFCI table index                            |           | 0                                               |         | RCS-954 |
| - E-DCH minimum set E-TFCI                      |           | 9                                               |         | RCS-955 |
| - Reference E-TFCIs                             |           | 2 E-TFCIs                                       |         | RCS-956 |
| - Reference E-TFCI                              |           | 11                                              |         | RCS-957 |
| - Reference E-TFCI PO                           |           | 4                                               |         | RCS-958 |
| - Reference E-TFCI                              |           | 83                                              |         | RCS-959 |
| - Reference E-TFCI PO                           |           | 16                                              |         | RCS-960 |
| - Maximum channelisation codes                  |           | 2sf4                                            |         | RCS-961 |
| - PLnon-max                                     |           | 0.84                                            |         | RCS-962 |
| - Scheduling Information                        |           |                                                 |         | RCS-963 |
| Configuration                                   |           |                                                 |         |         |
| - Periodicity for Scheduling Info – no grant    |           | Not present                                     |         | RCS-964 |
| - Periodicity for Scheduling Info – grant       |           | Not present                                     |         | RCS-965 |
| - Power Offset for Scheduling Info              |           | 0                                               |         | RCS-966 |
| - 3-Index-Step Threshold                        |           | Not present                                     |         | RCS-967 |
| - 2-Index-Step Threshold                        |           | Not present                                     |         | RCS-968 |
| - Scheduled Transmission configuration          |           |                                                 |         | RCS-969 |
| - 2ms scheduled transmission                    |           | Not present                                     |         | RCS-970 |
| grant HARQ process allocation                   |           |                                                 |         |         |
| - Serving Grant                                 |           | Not present                                     |         | RCS-971 |
| - UL 16QAM settings                             |           | Not present                                     | Rel-7   | RCS-972 |
| E-DCH info                                      | A4        | Not Present                                     | Rel-7   | RCS-973 |
|                                                 | A6        |                                                 | Rel-8   |         |
| Downlink HS-PDSCH Information                   | A1        | Not Present                                     | Rel-6   | RCS-974 |
| Downlink HS-PDSCH Information                   | A2        |                                                 | Rel-6   | RCS-975 |
|                                                 | A5, A6    |                                                 | Rel-8   | RCS-976 |
|                                                 | A3        |                                                 | Rel-7   | RCS-977 |
| - HS-SCCH Info                                  |           |                                                 |         | RCS-978 |
| - CHOICE mode                                   |           | FDD                                             |         | RCS-979 |
| - DL Scrambling Code                            |           | Not present                                     |         | RCS-980 |
| - HS-SCCH Channelisation                        |           |                                                 |         | RCS-981 |
| Code Information                                |           |                                                 |         |         |
| - HS-SCCH Channelisation                        |           | 7                                               |         | RCS-982 |
| Code                                            |           |                                                 |         |         |
| - Measurement Feedback Info                     |           |                                                 |         | RCS-983 |
| - CHOICE mode                                   |           | FDD                                             |         | RCS-984 |
| - POhsdsch                                      |           | 6 dB                                            |         | RCS-985 |
| - CQI Feedback cycle, k                         |           | 4 ms                                            |         | RCS-986 |
| - CQI repetition factor                         |           | 1                                               |         | RCS-987 |
| - $\Delta_{CQI}$                                |           | 5 (corresponds to 0dB in relative power offset) |         | RCS-988 |
| - CHOICE mode                                   |           | FDD (no data)                                   |         | RCS-989 |
| - Downlink 64QAM configured                     |           | Not present                                     | Rel-7   | RCS-990 |
| - HS-DSCH TB size table                         |           | Not present                                     | Rel-7   | RCS-991 |
| Downlink HS-PDSCH Information                   | A4        | Not present                                     | Rel-7   | RCS-992 |
| Downlink information common for all radio links | A1        |                                                 |         | RCS-993 |
| - Downlink DPCH info common for                 |           |                                                 |         | RCS-994 |

| Information Element                             | Condition | Value/remark                                                                    | Version            | Index    |
|-------------------------------------------------|-----------|---------------------------------------------------------------------------------|--------------------|----------|
| all RL                                          |           | Initialize                                                                      |                    | RCS-995  |
| - Timing Indication                             |           | Not Present                                                                     |                    | RCS-996  |
| - CFN-targetSFN frame offset                    |           | FDD                                                                             |                    | RCS-997  |
| - CHOICE mode                                   |           |                                                                                 |                    | RCS-998  |
| - Downlink DPCH power control                   |           |                                                                                 |                    |          |
| information                                     |           | 0 (single)                                                                      |                    | RCS-999  |
| - DPC mode                                      |           | 0                                                                               |                    | RCS-1000 |
| - Power offset $P_{\text{Pilot-DPCH}}$          |           | Not Present                                                                     |                    | RCS-1001 |
| - DL rate matching restriction                  |           |                                                                                 |                    |          |
| information                                     |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |                    | RCS-1002 |
| - Spreading factor                              |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |                    | RCS-1003 |
| - Fixed or Flexible Position                    |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |                    | RCS-1004 |
| - TFCI existence                                |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |                    | RCS-1005 |
| - CHOICE SF                                     |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |                    | RCS-1006 |
| - DPCH compressed mode info                     |           | Not Present                                                                     |                    | RCS-1007 |
| - TX Diversity mode                             |           | None                                                                            |                    | RCS-1008 |
| - SSDT information                              |           | Not Present                                                                     | R99 and Rel-4 only | RCS-1009 |
| - Default DPCH Offset Value                     |           | Arbitrary set to value 0..306688 by step of 512                                 |                    |          |
| Downlink information common for all radio links | A2        |                                                                                 | Rel-6              | RCS-1010 |
|                                                 | A3        |                                                                                 | Rel-7              | RCS-1011 |
|                                                 | A5        |                                                                                 | Rel-8              | RCS-1012 |
| - Downlink F-DPCH info common for all RL        |           | Initialise                                                                      |                    | RCS-1013 |
| - Timing Indication                             |           |                                                                                 |                    | RCS-1014 |
| - Downlink F-DPCH power control                 |           |                                                                                 |                    | RCS-1015 |
| information                                     |           | 0 (single)                                                                      |                    | RCS-1016 |
| - DPC mode                                      |           | 0.04                                                                            |                    | RCS-1017 |
| - TPC command error rate target                 |           | FDD                                                                             |                    | RCS-1018 |
| - CHOICE mode                                   |           | Not Present                                                                     |                    | RCS-1019 |
| - DPCH compressed mode info                     |           | None                                                                            |                    | RCS-1020 |
| - TX Diversity mode                             |           | Arbitrary set to value 0..306688 by step of 512                                 |                    | RCS-1021 |
| - Default DPCH Offset Value                     |           | TRUE                                                                            |                    | RCS-1022 |
| - MAC-hs reset indicator                        |           |                                                                                 |                    |          |
| Downlink information common for all radio links | A4        | Not Present                                                                     | Rel-7              | RCS-1023 |
|                                                 | A6        |                                                                                 | Rel-8              |          |
| Downlink information for each radio links list  | A1        |                                                                                 |                    | RCS-1024 |
| - Downlink information for each radio links     |           |                                                                                 |                    | RCS-1025 |
| - CHOICE mode                                   |           | FDD                                                                             |                    | RCS-1026 |
| - Primary CPICH info                            |           | Reference to clause 6.1 "Default settings (FDD)"                                |                    | RCS-1027 |
| - Primary scrambling code                       |           | Not Present                                                                     |                    | RCS-1028 |
| - PDSCH with SHO DCH info                       |           |                                                                                 | R99 and Rel-4 only | RCS-1029 |
| - PDSCH code mapping                            |           | Not Present                                                                     | R99 and Rel-4 only | RCS-1030 |
| - Serving HS-DSCH radio link indicator          |           | FALSE                                                                           | Rel-6              | RCS-1031 |
| - Serving E-DCH radio link indicator            |           | FALSE                                                                           | Rel-6              | RCS-1032 |
| - Downlink DPCH info for each RL                |           | Primary CPICH may be used                                                       |                    | RCS-1033 |
| - Primary CPICH usage for channel estimation    |           |                                                                                 |                    | RCS-1034 |
| - DPCH frame offset                             |           | Set to value: Default DPCH Offset Value mod 38 400                              |                    | RCS-1035 |
| - Secondary CPICH info                          |           | Not Present                                                                     |                    | RCS-1036 |
| - DL channelisation code                        |           |                                                                                 |                    | RCS-1037 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Condition | Value/remark                                                                    | Version            | Index    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------|--------------------|----------|
| <ul style="list-style-type: none"> <li>- Secondary scrambling code</li> <li>- Spreading factor</li> <li>- Code number</li> <li>- Scrambling code change</li> <li>- TPC combination index</li> <li>- SSdT Cell Identity</li> <li>- Closed loop timing adjustment mode</li> <li>- E-AGCH Info</li> <li>- E-HICH Information</li> <li>- E-RGCH Information</li> <li>- SCCPCH information for FACH</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | 1                                                                               | R99 and Rel-4 only | RCS-1038 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) |                    | RCS-1039 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                                                               |                    | RCS-1040 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     |                    | RCS-1041 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                                                               |                    | RCS-1042 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     |                    | RCS-1043 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     |                    | RCS-1044 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     |                    | RCS-1045 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     |                    | RCS-1046 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     |                    | RCS-1047 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     | R99 and Rel-4 only | RCS-1048 |
| Downlink information for each radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A2        |                                                                                 | Rel-6              | RCS-1049 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A3        |                                                                                 | Rel-7              | RCS-1050 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A5        |                                                                                 | Rel-8              | RCS-1051 |
| <ul style="list-style-type: none"> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- Serving HS-DSCH radio link indicator</li> <li>- Serving E-DCH radio link indicator</li> <li>- Downlink DPCH info for each RL</li> <li>- Downlink F-DPCH info for each RL</li> <li>- Primary CPICH usage for channel estimation</li> <li>- F-DPCH frame offset</li> <li>- F-DPCH slot format</li> <li>- Secondary CPICH info</li> <li>- Secondary scrambling code</li> <li>- Code number</li> <li>- TPC combination index</li> <li>- E-AGCH Info</li> <li>- E-AGCH Channelisation Code</li> <li>- CHOICE E-HICH Information</li> <li>- E-HICH Information</li> <li>- Channelisation code</li> <li>- Signature sequence</li> <li>- CHOICE E-RGCH Information</li> <li>- E-RGCH Information</li> <li>- Signature Sequence</li> <li>- RG combination index</li> </ul> |           | FDD                                                                             | Rel-7              | RCS-1052 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Ref. to the Default setting in clause 6.1 (FDD)                                 |                    | RCS-1053 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | TRUE                                                                            |                    | RCS-1054 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | TRUE                                                                            |                    | RCS-1055 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     |                    | RCS-1056 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     |                    | RCS-1057 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     |                    | RCS-1058 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     |                    | RCS-1059 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Primary CPICH may be used                                                       |                    | RCS-1060 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400   |                    | RCS-1061 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     |                    | RCS-1062 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     |                    | RCS-1063 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                     |                    | RCS-1064 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 12                                                                              |                    | RCS-1065 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                                                               |                    | RCS-1066 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 10                                                                              |                    | RCS-1067 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 4                                                                               |                    | RCS-1068 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 1                                                                               |                    | RCS-1069 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                                                               |                    | RCS-1070 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                                                               |                    | RCS-1071 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                                                               |                    | RCS-1072 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                                                               |                    | RCS-1073 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                                                               |                    | RCS-1074 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                                                               |                    | RCS-1075 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                                                               |                    | RCS-1076 |
| Downlink information for each radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A4        | Not Present                                                                     | Rel-7              | RCS-1077 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A6        |                                                                                 | Rel-8              |          |

| Condition | Explanation                                                                                                          | Version |
|-----------|----------------------------------------------------------------------------------------------------------------------|---------|
| A1        | This IE is needed for "Stand-alone SRBs mapped on DCH/DCH"                                                           |         |
| A2        | This IE is needed for "Stand-alone SRBs mapped on E-DCH and HS-DSCH "                                                | Rel-6   |
| A3        | This IE is needed for "Stand-alone SRBs mapped on E-DCH and HS-DSCH using MAC-ehs"                                   | Rel-7   |
| A4        | This IE is needed for "Stand-alone SRBs mapped on RACH and HS-DSCH using MAC-ehs" for HS-DSCH reception in CELL_FACH | Rel-7   |
| A5        | This IE is needed for "Stand-alone SRBs mapped on E-DCH using MAC-i/is and HS-DSCH using MAC-ehs"                    | Rel-8   |

|                                                                                                             |                                                                                                           |       |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------|
| A6                                                                                                          | This IE is needed for SRB mapped onto common E-DCH (MAC-i/is) and HS-DSCH (MAC-ehs) in Enhanced CELL_FACH |       |
| UTRAN to E-UTRA                                                                                             | This IE is needed for UTRAN to E-UTRA test cases                                                          | Rel-8 |
| NOTE 1: If not specified, then A1 will be the default condition                                             |                                                                                                           |       |
| NOTE 2: E-UTRA capability is requested on the first RRC connection setup message during test case execution |                                                                                                           |       |

## Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_FACH)

| Information Element                  | Condition       | Value/remark                                                                                            | Version | Index    |
|--------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                         |                 |                                                                                                         |         | RCSU-001 |
| Initial UE identity                  |                 | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message |         | RCSU-002 |
| RRC transaction identifier           |                 | Arbitrarily selects an integer between 0 and 3                                                          |         | RCSU-003 |
| Activation time                      |                 | Not Present (Now)                                                                                       |         | RCSU-004 |
| New U-RNTI                           |                 |                                                                                                         |         | RCSU-005 |
| - SRNC identity                      |                 | 0000 0000 0001B                                                                                         |         | RCSU-006 |
| - S-RNTI                             |                 | 0000 0000 0000 0000 0001B                                                                               |         | RCSU-007 |
| New C-RNTI                           |                 | 0000 0000 0000 0001B                                                                                    |         | RCSU-008 |
| New H-RNTI                           |                 | Not present                                                                                             | Rel-6   | RCSU-009 |
| New Primary E-RNTI                   |                 | Not present                                                                                             | Rel-6   | RCSU-010 |
| New Secondary E-RNTI                 |                 | Not present                                                                                             | Rel-6   | RCSU-011 |
| RRC state indicator                  |                 | CELL_FACH                                                                                               |         | RCSU-012 |
| UTRAN DRX cycle length coefficient   |                 | 9                                                                                                       |         | RCSU-013 |
| Capability update requirement        |                 |                                                                                                         |         | RCSU-014 |
| - UE radio access FDD capability     |                 | TRUE                                                                                                    |         | RCSU-015 |
| update requirement                   |                 |                                                                                                         |         |          |
| - UE radio access TDD capability     |                 | FALSE                                                                                                   |         | RCSU-016 |
| update requirement                   |                 |                                                                                                         |         |          |
| - UE radio access 3.84 Mcps TDD      |                 | FALSE                                                                                                   | Rel-4   | RCSU-017 |
| capability update requirement        |                 |                                                                                                         |         |          |
| - UE radio access 1.28 Mcps TDD      |                 | FALSE                                                                                                   | Rel-4   | RCSU-018 |
| capability update requirement        |                 |                                                                                                         |         |          |
| - System specific capability update  |                 | GSM                                                                                                     |         | RCSU-019 |
| requirement list                     |                 |                                                                                                         |         |          |
| - System specific capability update  | UTRAN to E-UTRA | GSM, EUTRA                                                                                              | Rel-8   |          |
| requirement list                     |                 |                                                                                                         |         |          |
| CHOICE <i>specification mode</i>     |                 | Complete specification                                                                                  | Rel-5   | RCSU-020 |
| - Complete specification             |                 |                                                                                                         | Rel-5   | RCSU-021 |
| - Signalling RB information to setup |                 | (UM DCCH for RRC)                                                                                       |         | RCSU-022 |
| - RB identity                        |                 | Not present                                                                                             |         | RCSU-023 |
| - CHOICE RLC info type               |                 | RLC info                                                                                                |         | RCSU-024 |
| - CHOICE Uplink RLC mode             |                 | UM RLC                                                                                                  |         | RCSU-025 |
| - Transmission RLC discard           |                 | timerBasedNoExplicit : dt50                                                                             |         | RCSU-026 |
| - SDU discard mode                   |                 | Not present                                                                                             |         | RCSU-027 |
| - CHOICE Downlink RLC mode           |                 | UM RLC                                                                                                  |         | RCSU-028 |
| - DL UM RLC LI size                  |                 | 7 bit                                                                                                   | Rel-6   | RCSU-029 |
| - One sided RLC re-establishment     |                 | FALSE                                                                                                   | Rel-6   | RCSU-030 |
| - RB mapping info                    |                 |                                                                                                         |         | RCSU-031 |
| - Information for each multiplexing  |                 | 2 RBMuxOptions                                                                                          |         | RCSU-032 |
| option                               |                 |                                                                                                         |         |          |
| - RLC logical channel mapping        |                 | Not Present                                                                                             |         | RCSU-033 |
| indicator                            |                 |                                                                                                         |         |          |
| - Number of uplink RLC logical       |                 | 1                                                                                                       |         | RCSU-034 |
| channels                             |                 |                                                                                                         |         |          |
| - Uplink transport channel type      |                 | DCH                                                                                                     |         | RCSU-035 |
| - UL Transport channel identity      |                 | 5                                                                                                       |         | RCSU-036 |
| - Logical channel identity           |                 | 1                                                                                                       |         | RCSU-037 |
| - CHOICE RLC size list               |                 | Configured                                                                                              |         | RCSU-038 |
| - MAC logical channel priority       |                 | 1                                                                                                       |         | RCSU-039 |
| - Downlink RLC logical channel info  |                 |                                                                                                         |         | RCSU-040 |
| - Number of downlink RLC logical     |                 | 1                                                                                                       |         | RCSU-041 |
| channels                             |                 |                                                                                                         |         |          |
| - Downlink transport channel type    |                 | DCH                                                                                                     |         | RCSU-042 |

| Information Element                        | Condition | Value/remark                                                                    | Version | Index    |
|--------------------------------------------|-----------|---------------------------------------------------------------------------------|---------|----------|
| - DL DCH Transport channel identity        |           | 10                                                                              |         | RCSU-043 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                     |         | RCSU-044 |
| - Logical channel identity                 |           | 1                                                                               |         | RCSU-045 |
| - RLC logical channel mapping              |           | Not Present                                                                     |         | RCSU-046 |
| - Number of uplink RLC logical channels    |           | 1                                                                               |         | RCSU-047 |
| - Uplink transport channel type            |           | RACH                                                                            |         | RCSU-048 |
| - UL Transport channel identity            |           | Not Present                                                                     |         | RCSU-049 |
| - Logical channel identity                 |           | 1                                                                               |         | RCSU-050 |
| - CHOICE RLC size list                     |           | Explicit list                                                                   |         | RCSU-051 |
| - RLC size index                           |           | According to clause 6.10.2.4.4.1                                                |         | RCSU-052 |
| - MAC logical channel priority             |           | 1                                                                               |         | RCSU-053 |
| - Downlink RLC logical channel info        |           |                                                                                 |         | RCSU-054 |
| - Number of downlink RLC logical channels  |           | 1                                                                               |         | RCSU-055 |
| - Downlink transport channel type          |           | FACH                                                                            |         | RCSU-056 |
| - DL DCH Transport channel identity        |           | Not Present                                                                     |         | RCSU-057 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                     |         | RCSU-058 |
| - Logical channel identity                 |           | 1                                                                               |         | RCSU-059 |
| - Signalling RB information to setup       |           | (AM DCCH for RRC)                                                               |         | RCSU-060 |
| - RB identity                              |           | Not Present                                                                     |         | RCSU-061 |
| - CHOICE RLC info type                     |           | RLC info                                                                        |         | RCSU-062 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                                                                          |         | RCSU-063 |
| - Transmission RLC discard                 |           |                                                                                 |         | RCSU-064 |
| - SDU discard mode                         |           | No Discard                                                                      |         | RCSU-065 |
| - MAX_DAT                                  |           | 15                                                                              |         | RCSU-066 |
| - Transmission window size                 |           | 32                                                                              |         | RCSU-067 |
| - Timer_RST                                |           | 500                                                                             |         | RCSU-068 |
| - Max_RST                                  |           | 1                                                                               |         | RCSU-069 |
| - Polling info                             |           |                                                                                 |         | RCSU-070 |
| - Timer_poll_prohibit                      |           | 200                                                                             |         | RCSU-071 |
| - Timer_poll                               |           | 200                                                                             |         | RCSU-072 |
| - Poll_PDU                                 |           | Not Present                                                                     |         | RCSU-073 |
| - Poll_SDU                                 |           | 1                                                                               |         | RCSU-074 |
| - Last transmission PDU poll               |           | TRUE                                                                            |         | RCSU-075 |
| - Last retransmission PDU poll             |           | TRUE                                                                            |         | RCSU-076 |
| - Poll_Windows                             |           | 99                                                                              |         | RCSU-077 |
| - Timer_poll_periodic                      |           | Not Present                                                                     |         | RCSU-078 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                                                                          |         | RCSU-079 |
| - DL RLC PDU size                          |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | Rel-6   | RCSU-080 |
| - In-sequence delivery                     |           | TRUE                                                                            |         | RCSU-081 |
| - Receiving window size                    |           | 32                                                                              |         | RCSU-082 |
| - Downlink RLC status info                 |           |                                                                                 |         | RCSU-083 |
| - Timer_status_prohibit                    |           | 200                                                                             |         | RCSU-084 |
| - Timer_EPC                                |           | Not Present                                                                     |         | RCSU-085 |
| - Missing PDU indicator                    |           | TRUE                                                                            |         | RCSU-086 |
| - Timer_STATUS_periodic                    |           | Not Present                                                                     |         | RCSU-087 |
| - RB mapping info                          |           |                                                                                 |         | RCSU-088 |
| - Information for each multiplexing option |           | 2 RBMuxOptions                                                                  |         | RCSU-089 |
| - RLC logical channel mapping              |           | Not Present                                                                     |         | RCSU-090 |
| - Number of uplink RLC logical channels    |           | 1                                                                               |         | RCSU-091 |
| - Uplink transport channel type            |           | DCH                                                                             |         | RCSU-092 |
| - UL Transport channel identity            |           | 5                                                                               |         | RCSU-093 |
| - Logical channel identity                 |           | 2                                                                               |         | RCSU-094 |
| - CHOICE RLC size list                     |           | Configured                                                                      |         | RCSU-095 |
| - MAC logical channel priority             |           | 2                                                                               |         | RCSU-096 |
| - Downlink RLC logical channel info        |           |                                                                                 |         | RCSU-097 |



| Information Element                        | Condition | Value/remark                                                                    | Version | Index    |
|--------------------------------------------|-----------|---------------------------------------------------------------------------------|---------|----------|
| - Number of downlink RLC logical channels  |           | 1                                                                               |         | RCSU-098 |
| - Downlink transport channel type          |           | DCH                                                                             |         | RCSU-099 |
| - DL DCH Transport channel identity        |           | 10                                                                              |         | RCSU-100 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                     |         | RCSU-101 |
| - Logical channel identity                 |           | 2                                                                               |         | RCSU-102 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                     |         | RCSU-103 |
| - Number of uplink RLC logical channels    |           | 1                                                                               |         | RCSU-104 |
| - Uplink transport channel type            |           | RACH                                                                            |         | RCSU-105 |
| - UL Transport channel identity            |           | Not Present                                                                     |         | RCSU-106 |
| - Logical channel identity                 |           | 2                                                                               |         | RCSU-107 |
| - CHOICE RLC size list                     |           | Explicit list                                                                   |         | RCSU-108 |
| - RLC size index                           |           | According to clause 6.10.2.4.4.1                                                |         | RCSU-109 |
| - MAC logical channel priority             |           | 2                                                                               |         | RCSU-110 |
| - Downlink RLC logical channel info        |           |                                                                                 |         | RCSU-111 |
| - Number of downlink RLC logical channels  |           | 1                                                                               |         | RCSU-112 |
| - Downlink transport channel type          |           | FACH                                                                            |         | RCSU-113 |
| - DL DCH Transport channel identity        |           | Not Present                                                                     |         | RCSU-114 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                     |         | RCSU-115 |
| - Logical channel identity                 |           | 2                                                                               |         | RCSU-116 |
| Signalling RB information to setup         |           | (AM DCCH for NAS_DT High priority)                                              |         | RCSU-117 |
| - RB identity                              |           | Not present                                                                     |         | RCSU-118 |
| - CHOICE RLC info type                     |           | RLC info                                                                        |         | RCSU-119 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                                                                          |         | RCSU-120 |
| - Transmission RLC discard                 |           |                                                                                 |         | RCSU-121 |
| - SDU discard mode                         |           | No Discard                                                                      |         | RCSU-122 |
| - MAX_DAT                                  |           | 15                                                                              |         | RCSU-123 |
| - Transmission window size                 |           | 32                                                                              |         | RCSU-124 |
| - Timer_RST                                |           | 500                                                                             |         | RCSU-125 |
| - Max_RST                                  |           | 1                                                                               |         | RCSU-126 |
| - Polling info                             |           |                                                                                 |         | RCSU-127 |
| - Timer_poll_prohibit                      |           | 200                                                                             |         | RCSU-128 |
| - Timer_poll                               |           | 200                                                                             |         | RCSU-129 |
| - Poll_PDU                                 |           | Not Present                                                                     |         | RCSU-130 |
| - Poll_SDU                                 |           | 1                                                                               |         | RCSU-131 |
| - Last transmission PDU poll               |           | TRUE                                                                            |         | RCSU-132 |
| - Last retransmission PDU poll             |           | TRUE                                                                            |         | RCSU-133 |
| - Poll_Windows                             |           | 99                                                                              |         | RCSU-134 |
| - Timer_poll_periodic                      |           | Not Present                                                                     |         | RCSU-135 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                                                                          |         | RCSU-136 |
| - DL RLC PDU size                          |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | Rel-6   | RCSU-137 |
| - In-sequence delivery                     |           | TRUE                                                                            |         | RCSU-138 |
| - Receiving window size                    |           | 32                                                                              |         | RCSU-139 |
| - Downlink RLC status info                 |           |                                                                                 |         | RCSU-140 |
| - Timer_status_prohibit                    |           | 200                                                                             |         | RCSU-141 |
| - Timer_EPC                                |           | Not Present                                                                     |         | RCSU-142 |
| - Missing PDU indicator                    |           | TRUE                                                                            |         | RCSU-143 |
| - Timer_STATUS_periodic                    |           | Not Present                                                                     |         | RCSU-144 |
| - RB mapping info                          |           |                                                                                 |         | RCSU-145 |
| - Information for each multiplexing option |           | 2 RBmuxOptions                                                                  |         | RCSU-146 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                     |         | RCSU-147 |
| - Number of uplink RLC logical channels    |           | 1                                                                               |         | RCSU-148 |
| - Uplink transport channel type            |           | DCH                                                                             |         | RCSU-149 |
| - UL Transport channel identity            |           | 5                                                                               |         | RCSU-150 |
| - Logical channel identity                 |           | 3                                                                               |         | RCSU-151 |

| Information Element                       | Condition | Value/remark                                                                    | Version | Index    |
|-------------------------------------------|-----------|---------------------------------------------------------------------------------|---------|----------|
| - CHOICE RLC size list                    |           | Configured                                                                      |         | RCSU-152 |
| - MAC logical channel priority            |           | 3                                                                               |         | RCSU-153 |
| - Downlink RLC logical channel info       |           | 1                                                                               |         | RCSU-154 |
| - Number of downlink RLC logical channels |           | 1                                                                               |         | RCSU-155 |
| - Downlink transport channel type         |           | DCH                                                                             |         | RCSU-156 |
| - DL DCH Transport channel                |           | 10                                                                              |         | RCSU-157 |
| - DL DSCH Transport channel               |           | Not Present                                                                     |         | RCSU-158 |
| - Logical channel identity                |           | 3                                                                               |         | RCSU-159 |
| - RLC logical channel mapping             |           | Not Present                                                                     |         | RCSU-160 |
| - Number of uplink RLC logical channels   |           | 1                                                                               |         | RCSU-161 |
| - Uplink transport channel type           |           | RACH                                                                            |         | RCSU-162 |
| - UL DCH Transport channel                |           | Not Present                                                                     |         | RCSU-163 |
| - Logical channel identity                |           | 3                                                                               |         | RCSU-164 |
| - CHOICE RLC size list                    |           | Explicit list                                                                   |         | RCSU-165 |
| - RLC size index                          |           | According to clause 6.10.2.4.4.1                                                |         | RCSU-166 |
| - MAC logical channel priority            |           | 3                                                                               |         | RCSU-167 |
| - Downlink RLC logical channel info       |           | 1                                                                               |         | RCSU-168 |
| - Number of downlink RLC logical channels |           | 1                                                                               |         | RCSU-169 |
| - Downlink transport channel type         |           | FACH                                                                            |         | RCSU-170 |
| - DL DCH Transport channel                |           | Not Present                                                                     |         | RCSU-171 |
| - DL DSCH Transport channel               |           | Not Present                                                                     |         | RCSU-172 |
| - Logical channel identity                |           | 3                                                                               |         | RCSU-173 |
| - Signalling RB information to setup      |           | (AM DCCH for NAS_DT Low priority)                                               |         | RCSU-174 |
| - RB identity                             |           | Not Present                                                                     |         | RCSU-175 |
| - CHOICE RLC info type                    |           | RLC info                                                                        |         | RCSU-176 |
| - CHOICE Uplink RLC mode                  |           | AM RLC                                                                          |         | RCSU-177 |
| - Transmission RLC discard                |           |                                                                                 |         | RCSU-178 |
| - SDU discard mode                        |           | No Discard                                                                      |         | RCSU-179 |
| - MAX_DAT                                 |           | 15                                                                              |         | RCSU-180 |
| - Transmission window size                |           | 32                                                                              |         | RCSU-181 |
| - Timer_RST                               |           | 500                                                                             |         | RCSU-182 |
| - Max_RST                                 |           | 1                                                                               |         | RCSU-183 |
| - Polling info                            |           |                                                                                 |         | RCSU-184 |
| - Timer_poll_prohibit                     |           | 200                                                                             |         | RCSU-185 |
| - Timer_poll                              |           | 200                                                                             |         | RCSU-186 |
| - Poll_PDU                                |           | Not Present                                                                     |         | RCSU-187 |
| - Poll_SDU                                |           | 1                                                                               |         | RCSU-188 |
| - Last transmission PDU poll              |           | TRUE                                                                            |         | RCSU-189 |
| - Last retransmission PDU poll            |           | TRUE                                                                            |         | RCSU-190 |
| - Poll_Windows                            |           | 99                                                                              |         | RCSU-191 |
| - Timer_poll_periodic                     |           | Not Present                                                                     |         | RCSU-192 |
| - CHOICE Downlink RLC mode                |           | AM RLC                                                                          |         | RCSU-193 |
| - DL RLC PDU size                         |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) | Rel-6   | RCSU-194 |
| - In-sequence delivery                    |           | TRUE                                                                            |         | RCSU-195 |
| - Receiving window size                   |           | 32                                                                              |         | RCSU-196 |
| - Downlink RLC status info                |           |                                                                                 |         | RCSU-197 |
| - Timer_status_prohibit                   |           | 200                                                                             |         | RCSU-198 |
| - Timer_EPC                               |           | Not Present                                                                     |         | RCSU-199 |
| - Missing PDU indicator                   |           | TRUE                                                                            |         | RCSU-200 |
| - Timer_STATUS_periodic                   |           | Not Present                                                                     |         | RCSU-201 |
| - RB mapping info                         |           |                                                                                 |         | RCSU-202 |
| - Information for each multiplexing       |           | 2 RBMuxOptions                                                                  |         | RCSU-203 |
| - RLC logical channel mapping             |           | Not Present                                                                     |         | RCSU-204 |
| - Number of uplink RLC logical            |           | 1                                                                               |         | RCSU-205 |

| Information Element                      | Condition | Value/remark                                                                                                                                                                                                                                                                                              | Version | Index    |
|------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| channels                                 |           |                                                                                                                                                                                                                                                                                                           |         |          |
| - Uplink transport channel type          |           | DCH                                                                                                                                                                                                                                                                                                       |         | RCSU-206 |
| - UL Transport channel identity          |           | 5                                                                                                                                                                                                                                                                                                         |         | RCSU-207 |
| - Logical channel identity               |           | 4                                                                                                                                                                                                                                                                                                         |         | RCSU-208 |
| - CHOICE RLC size list                   |           | Configured                                                                                                                                                                                                                                                                                                |         | RCSU-209 |
| - MAC logical channel priority           |           | 4                                                                                                                                                                                                                                                                                                         |         | RCSU-210 |
| - Downlink RLC logical channel info      |           |                                                                                                                                                                                                                                                                                                           |         | RCSU-211 |
| - Number of downlink RLC logical         |           | 1                                                                                                                                                                                                                                                                                                         |         | RCSU-212 |
| channels                                 |           |                                                                                                                                                                                                                                                                                                           |         |          |
| - Downlink transport channel type        |           | DCH                                                                                                                                                                                                                                                                                                       |         | RCSU-213 |
| - DL DCH Transport channel               |           | 10                                                                                                                                                                                                                                                                                                        |         | RCSU-214 |
| identity                                 |           |                                                                                                                                                                                                                                                                                                           |         |          |
| - DL DSCH Transport channel              |           | Not Present                                                                                                                                                                                                                                                                                               |         | RCSU-215 |
| identity                                 |           |                                                                                                                                                                                                                                                                                                           |         |          |
| - Logical channel identity               |           | 4                                                                                                                                                                                                                                                                                                         |         | RCSU-216 |
| - RLC logical channel mapping            |           | Not Present                                                                                                                                                                                                                                                                                               |         | RCSU-217 |
| indicator                                |           |                                                                                                                                                                                                                                                                                                           |         |          |
| - Number of uplink RLC logical           |           | 1                                                                                                                                                                                                                                                                                                         |         | RCSU-218 |
| channels                                 |           |                                                                                                                                                                                                                                                                                                           |         |          |
| - Uplink transport channel type          |           | RACH                                                                                                                                                                                                                                                                                                      |         | RCSU-219 |
| - UL Transport channel identity          |           | Not Present                                                                                                                                                                                                                                                                                               |         | RCSU-220 |
| - Logical channel identity               |           | 4                                                                                                                                                                                                                                                                                                         |         | RCSU-221 |
| - CHOICE RLC size list                   |           | Explicit list                                                                                                                                                                                                                                                                                             |         | RCSU-222 |
| - RLC size index                         |           | According to clause 6.10.2.4.4.1                                                                                                                                                                                                                                                                          |         | RCSU-223 |
| - MAC logical channel priority           |           | 4                                                                                                                                                                                                                                                                                                         |         | RCSU-224 |
| - Downlink RLC logical channel info      |           |                                                                                                                                                                                                                                                                                                           |         | RCSU-225 |
| - Number of downlink RLC logical         |           | 1                                                                                                                                                                                                                                                                                                         |         | RCSU-226 |
| channels                                 |           |                                                                                                                                                                                                                                                                                                           |         |          |
| - Downlink transport channel type        |           | FACH                                                                                                                                                                                                                                                                                                      |         | RCSU-227 |
| - DL DCH Transport channel               |           | Not Present                                                                                                                                                                                                                                                                                               |         | RCSU-228 |
| identity                                 |           |                                                                                                                                                                                                                                                                                                           |         |          |
| - DL DSCH Transport channel              |           | Not Present                                                                                                                                                                                                                                                                                               |         | RCSU-229 |
| identity                                 |           |                                                                                                                                                                                                                                                                                                           |         |          |
| - Logical channel identity               |           | 4                                                                                                                                                                                                                                                                                                         |         | RCSU-230 |
| UL Transport channel information for all |           |                                                                                                                                                                                                                                                                                                           |         | RCSU-231 |
| transport channels                       |           |                                                                                                                                                                                                                                                                                                           |         |          |
| - PRACH TFCS                             |           | Not Present                                                                                                                                                                                                                                                                                               |         | RCSU-232 |
| - CHOICE Mode                            |           | FDD                                                                                                                                                                                                                                                                                                       |         | RCSU-233 |
| - TFC subset                             |           | Not Present                                                                                                                                                                                                                                                                                               |         | RCSU-234 |
| - UL DCH TFCS                            |           |                                                                                                                                                                                                                                                                                                           |         | RCSU-235 |
| - CHOICE TFCI signalling                 |           | Normal                                                                                                                                                                                                                                                                                                    |         | RCSU-236 |
| - TFCI Field 1 information               |           |                                                                                                                                                                                                                                                                                                           |         | RCSU-237 |
| - CHOICE TFCS representation             |           | Complete                                                                                                                                                                                                                                                                                                  |         | RCSU-238 |
| - TFCS complete reconfigure              |           |                                                                                                                                                                                                                                                                                                           |         | RCSU-239 |
| - CHOICE CTFC Size                       |           | 2bit CTFC                                                                                                                                                                                                                                                                                                 |         | RCSU-240 |
| - CTFC information                       |           | This IE is repeated for TFC numbers according to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)                                                                                                                                                                                       |         | RCSU-241 |
| - CTFC                                   |           | According to clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)                                                                                                                                                                                                                           |         | RCSU-242 |
| - Power offset information               |           |                                                                                                                                                                                                                                                                                                           |         | RCSU-243 |
| - CHOICE Gain Factors                    |           | Computed Gain Factors (The last TFC is set to Signalled Gain Factors)                                                                                                                                                                                                                                     |         | RCSU-244 |
| - Gain factor $\beta_c$                  |           | 11 (below 64 kbps)<br>9 (equal or higher than 64 kbps) when HSDPA is not configured<br>9 (equal or higher than 64 kbps and below 384 kbps) when HSDPA is also configured<br>6 (equal or higher than 384 kbps) when HSDPA is also configured<br>(Not Present if the above is set to Computed Gain Factors) |         | RCSU-245 |
| - Gain factor $\beta_d$                  |           | 15<br>(Not Present if the above is set to                                                                                                                                                                                                                                                                 |         | RCSU-246 |

| Information Element                                                                                                                                                                                                                                                                                                                                   | Condition | Value/remark                                                                                                                                        | Version        | Index    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| <ul style="list-style-type: none"> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset Pp-m</li> </ul> Added or Reconfigured TrCH information list                                                                                                                                                                                  |           | Computed Gain Factors)                                                                                                                              |                | RCSU-247 |
|                                                                                                                                                                                                                                                                                                                                                       |           | 0                                                                                                                                                   |                | RCSU-248 |
|                                                                                                                                                                                                                                                                                                                                                       |           | FDD                                                                                                                                                 |                | RCSU-249 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                                                         |                | RCSU-250 |
|                                                                                                                                                                                                                                                                                                                                                       |           | TS 25.331 specifies that "Although this IE is not required when the IE "RRC state indicator" is set to "CELL_FACH", need is MP to align with ASN.1" |                | RCSU-251 |
|                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                     |                | RCSU-252 |
|                                                                                                                                                                                                                                                                                                                                                       |           | DCH                                                                                                                                                 |                | RCSU-253 |
|                                                                                                                                                                                                                                                                                                                                                       |           | 5                                                                                                                                                   |                | RCSU-254 |
|                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                     |                | RCSU-255 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Dedicated transport channels                                                                                                                        |                | RCSU-256 |
|                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                     |                | RCSU-257 |
|                                                                                                                                                                                                                                                                                                                                                       |           | bitMode sizeType2 {part1 2, part2 OMIT}                                                                                                             |                | RCSU-258 |
|                                                                                                                                                                                                                                                                                                                                                       |           | This results in an RLC size of 144 bits                                                                                                             |                | RCSU-259 |
|                                                                                                                                                                                                                                                                                                                                                       |           | List with two entry                                                                                                                                 |                | RCSU-260 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                                                         |                | RCSU-261 |
|                                                                                                                                                                                                                                                                                                                                                       |           | 0                                                                                                                                                   |                | RCSU-262 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                                                         |                | RCSU-263 |
|                                                                                                                                                                                                                                                                                                                                                       |           | 1                                                                                                                                                   |                | RCSU-264 |
|                                                                                                                                                                                                                                                                                                                                                       |           | ALL                                                                                                                                                 |                | RCSU-265 |
|                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                     |                | RCSU-266 |
| <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format</li> </ul> information |           | 40 ms                                                                                                                                               |                | RCSU-267 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Convolutional                                                                                                                                       |                | RCSU-268 |
|                                                                                                                                                                                                                                                                                                                                                       |           | 1/3                                                                                                                                                 |                | RCSU-269 |
|                                                                                                                                                                                                                                                                                                                                                       |           | -170                                                                                                                                                |                | RCSU-270 |
|                                                                                                                                                                                                                                                                                                                                                       |           | 16                                                                                                                                                  |                | RCSU-271 |
|                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                     |                | RCSU-272 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                                                         |                | RCSU-273 |
|                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                     |                | RCSU-274 |
|                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                     |                | RCSU-275 |
|                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                     |                | RCSU-276 |
| <ul style="list-style-type: none"> <li>- CHOICE mode</li> <li>- CHOICE DL parameters</li> </ul> Added or Reconfigured TrCH information list                                                                                                                                                                                                           |           | FDD                                                                                                                                                 |                | RCSU-277 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Same as UL                                                                                                                                          |                | RCSU-278 |
|                                                                                                                                                                                                                                                                                                                                                       |           | TS 25.331 specifies that "Although this IE is not required when the IE "RRC state indicator" is set to "CELL_FACH", need is MP to align with ASN.1" |                | RCSU-279 |
|                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                     |                | RCSU-280 |
|                                                                                                                                                                                                                                                                                                                                                       |           | DCH                                                                                                                                                 |                | RCSU-281 |
|                                                                                                                                                                                                                                                                                                                                                       |           | 10                                                                                                                                                  |                | RCSU-282 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Same as UL                                                                                                                                          |                | RCSU-283 |
|                                                                                                                                                                                                                                                                                                                                                       |           | DCH                                                                                                                                                 |                | RCSU-284 |
|                                                                                                                                                                                                                                                                                                                                                       |           | 5                                                                                                                                                   |                | RCSU-285 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                                                         |                | RCSU-286 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not present                                                                                                                                         |                | RCSU-287 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not present                                                                                                                                         |                | RCSU-288 |
| Frequency info<br>Maximum allowed UL TX power<br>CHOICE channel requirement<br>E-DCH Info<br>Downlink HS-PDSCH Information<br>Downlink information common for all radio links<br>Downlink information for each radio link list                                                                                                                        |           | Not Present                                                                                                                                         | Rel-6<br>Rel-6 | RCSU-289 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                                                         |                | RCSU-290 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                                                         |                | RCSU-291 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                                                         |                | RCSU-292 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                                                         |                | RCSU-293 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                                                         |                | RCSU-294 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                                                         |                | RCSU-295 |
|                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                                                         |                | RCSU-296 |

| Condition       | Explanation                                      | Version |
|-----------------|--------------------------------------------------|---------|
| UTRAN to E-UTRA | This IE is needed for UTRAN to E-UTRA test cases | Rel-8   |

Contents of RRC CONNECTION SETUP COMPLETE message: AM

| Information Element | Value/remark | Version |
|---------------------|--------------|---------|
|---------------------|--------------|---------|

|                                       |                                                                                                                                           |        |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Message Type                          |                                                                                                                                           |        |
| RRC transaction identifier            | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION SETUP message. |        |
| START list                            | This IE is checked to see if it is present.                                                                                               |        |
| UE radio access capability            | Not checked                                                                                                                               |        |
| - Access stratum release indicator    | Not checked                                                                                                                               |        |
| - DL capability with simultaneous     | Not checked                                                                                                                               | REL-5  |
| HS-DSCH configuration                 |                                                                                                                                           |        |
| - PDCP capability                     | Not checked                                                                                                                               |        |
| - RLC capability                      | Not checked                                                                                                                               |        |
| - Transport channel capability        | Not checked                                                                                                                               |        |
| - RF capability FDD                   | Not checked                                                                                                                               |        |
| - RF capability TDD                   | Not checked                                                                                                                               | REL-4  |
| - RF capability TDD 1.28 Mcps         | Not checked                                                                                                                               | REL-4  |
| - Physical channel capability         | Not checked                                                                                                                               |        |
| - UE multi-mode/multi-RAT             | Not checked                                                                                                                               |        |
| capability                            |                                                                                                                                           |        |
| - Security capability                 |                                                                                                                                           |        |
| - Ciphering algorithm capability      |                                                                                                                                           |        |
| >UEA0                                 | TRUE                                                                                                                                      |        |
| >UEA1                                 | TRUE                                                                                                                                      |        |
| >UEA2                                 | To be checked against PICS                                                                                                                | REL-7  |
| - Integrity protection algorithm      |                                                                                                                                           |        |
| capability                            |                                                                                                                                           |        |
| >UIA1                                 | TRUE                                                                                                                                      |        |
| >UIA2                                 | To be checked against PICS                                                                                                                | REL-7  |
| - UE positioning capability           | Not checked                                                                                                                               |        |
| - Measurement capability              | Not checked                                                                                                                               |        |
| - Measurement capability TDD          | Not checked                                                                                                                               | REL-8  |
| - Device type                         | Not checked                                                                                                                               | REL-6  |
| - Support for System Information      | Not checked                                                                                                                               | REL-6  |
| Block type 11bis                      |                                                                                                                                           |        |
| - Support for F-DPCH                  | To be checked against requirement if specified                                                                                            | REL-6  |
| - MAC-ehs support                     | To be checked against requirement if specified                                                                                            | REL-7  |
| - UE specific capability Information  | Not checked                                                                                                                               | REL-7  |
| LCR TDD                               |                                                                                                                                           |        |
| - Support for E-DPCCH Power           | Not checked                                                                                                                               | REL-7  |
| Boosting                              |                                                                                                                                           |        |
| - Support of common E-DCH             | To be checked against requirement if specified                                                                                            | REL-8  |
| - Support of MAC-i/is                 | To be checked against requirement if specified                                                                                            | REL-8  |
| - Support of SPS operation            | Not checked                                                                                                                               | REL-8  |
| - Support of Control Channel DRX      | Not checked                                                                                                                               | REL-8  |
| operation                             |                                                                                                                                           |        |
| - Support of CSG                      | To be checked against requirement if specified                                                                                            | REL-8  |
| - Support for Two DRX schemes in      | To be checked against requirement if specified                                                                                            | REL-7  |
| URA_PCH and CELL_PCH                  |                                                                                                                                           |        |
| - Support for E-DPDCH power           | Not checked                                                                                                                               | REL-7  |
| interpolation formula                 |                                                                                                                                           |        |
| - Support for absolute priority       | To be checked against requirement if specified                                                                                            | REL-8  |
| based cell re-selection in UTRAN      |                                                                                                                                           |        |
| - Support of MU-MIMO                  | Not checked                                                                                                                               | REL-10 |
| - Radio Access Capability Band        | To be checked against requirement if specified                                                                                            | REL-9  |
| Combination List                      |                                                                                                                                           |        |
| - Support of TX Diversity on DL       | To be checked against requirement if specified                                                                                            | REL-7  |
| Control Channels by MIMO Capable      |                                                                                                                                           |        |
| UE when MIMO operation is active      |                                                                                                                                           |        |
| - Support of enhanced TS0             | To be checked against requirement if specified                                                                                            | REL-9  |
| - Support for cell-specific Tx        | To be checked against requirement if specified                                                                                            | REL-8  |
| diversity configuration for dual-cell |                                                                                                                                           |        |
| operation                             |                                                                                                                                           |        |
| - CSG proximity indication            | To be checked against requirement if specified                                                                                            | REL-9  |
| capability                            |                                                                                                                                           |        |
| - Neighbour Cell SI acquisition       | To be checked against requirement if specified                                                                                            | REL-9  |
| capability                            |                                                                                                                                           |        |
| - Extended measurements Support       | To be checked against requirement if specified                                                                                            | REL-9  |
| - Support for dual cell with MIMO     | To be checked against requirement if specified                                                                                            | REL-10 |
| operation in different bands          |                                                                                                                                           |        |
| - UE based network performance        | To be checked against requirement if specified                                                                                            | REL-10 |

|                                                 |                                                       |        |
|-------------------------------------------------|-------------------------------------------------------|--------|
| measurements parameters                         |                                                       |        |
| - Support of UTRAN ANR                          | To be checked against requirement if specified        | REL-10 |
| UE radio access capability extension            | Not checked                                           |        |
| UE system specific capability                   | Not checked                                           |        |
| Deferred measurement control reading            | Not Present for Rel-7 or later, otherwise Not checked |        |
| Logged Meas Available                           | Not checked                                           | REL-10 |
| ANR Logging Results Available                   | Not checked                                           | REL-10 |
| Connection Establishment Failure Info Available | Not checked                                           | REL-11 |

## Contents of RRC STATUS message: AM

| Information Element                | Value/remark                                                                                                                                                                                         |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                       |                                                                                                                                                                                                      |
| Integrity check info               |                                                                                                                                                                                                      |
| - Message authentication code      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Identification of received message | Not Checked                                                                                                                                                                                          |
| Protocol error information         |                                                                                                                                                                                                      |
| - Protocol error cause             | Refer to test requirement.                                                                                                                                                                           |

## Contents of SECURITY MODE COMMAND message: AM

| Information Element                         | Condition | Value/remark                                                                                                                                                                                               | Version |
|---------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                | A1, A2    |                                                                                                                                                                                                            |         |
| RRC transaction identifier                  |           | Arbitrarily selects an integer between 0 and 3                                                                                                                                                             |         |
| Integrity check info                        |           |                                                                                                                                                                                                            |         |
| - Message authentication code               |           | Set to MAC-I value computed by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.                                                                           |         |
| - RRC Message Sequence Number               |           | Set to an arbitrarily selected integer between 0 and 15                                                                                                                                                    |         |
| Security capability                         |           |                                                                                                                                                                                                            |         |
| - Ciphering algorithm capability            |           | If the UE has indicated support for ciphering algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.                                         |         |
| - UEA0                                      |           |                                                                                                                                                                                                            |         |
| - UEA1                                      |           | If the UE has indicated support for ciphering algorithm UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.                                         |         |
| - UEA2                                      |           | If the UE has indicated support for ciphering algorithm UEA2 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.                                         | Rel-7   |
| - Spare                                     |           | Spare 3-15 = FALSE                                                                                                                                                                                         |         |
| - Integrity protection algorithm capability |           | 0000000000000010B (UIA1)                                                                                                                                                                                   |         |
| - UIA1                                      |           | TRUE                                                                                                                                                                                                       |         |
| - UIA2                                      |           | If the UE has indicated support for integrity algorithm UIA2 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.                                         | Rel-7   |
| - Spare                                     |           | Spare 0 and Spare 3-15 = FALSE                                                                                                                                                                             |         |
| Ciphering mode info                         |           | This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted. |         |
| - Ciphering mode command                    |           | Start/restart                                                                                                                                                                                              |         |
| - Ciphering algorithm                       |           | UEA0 or UEA1 or UEA2. The indicated algorithm must be one of the algorithms supported by the                                                                                                               |         |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                    | Condition | Value/remark                                                                                                                                                                                                                                                                             | Version |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <ul style="list-style-type: none"> <li>- Ciphering activation time for DPCH</li> <li>- Radio bearer downlink ciphering activation time info</li> <li>- Radio bearer activation time</li> <li>- RB identity</li> <li>- RLC sequence number</li> <li>- RB identity</li> <li>- RLC sequence number</li> <li>- RB identity</li> <li>- RLC sequence number</li> <li>- RB identity</li> <li>- RLC sequence number</li> </ul> |           | UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.<br>Not Present<br><br>1<br>Current RLC SN<br>2<br>Current RLC SN+2<br>3<br>Current RLC SN<br>4<br>Current RLC SN                                                                           |         |
| Integrity protection mode info <ul style="list-style-type: none"> <li>- Integrity protection mode command</li> <li>- Downlink integrity protection activation info</li> <li>- Integrity protection algorithm</li> </ul>                                                                                                                                                                                                |           | Start<br>Not Present<br>UIA1 or UIA2. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message<br>SS selects an arbitrary 32 bits number for FRESH<br>CS or PS<br>Not Checked |         |
| - Integrity protection initialisation number<br><br>CN domain identity<br>UE system specific security capability<br>UE system specific security capability <ul style="list-style-type: none"> <li>- Inter-RAT UE security capability</li> <li>- CHOICE <i>system</i></li> <li>- GSM security capability</li> </ul>                                                                                                     | A1<br>A2  | GSM<br>The indicated algorithms must be the same as the algorithms supported by the UE as indicated in the IE " UE system specific capability " in the RRC CONNECTION SETUP COMPLETE message.                                                                                            |         |

| Condition | Explanation           |
|-----------|-----------------------|
| A1        | UE not supporting GSM |
| A2        | UE supporting GSM     |

## Contents of SECURITY MODE COMPLETE message: AM

| Information Element                                                                                                                    | Value/remark                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type<br>RRC transaction identifier                                                                                             | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message.                                                                                                                                                                              |
| Integrity check info <ul style="list-style-type: none"> <li>- Message authentication code</li> </ul>                                   | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.                                                                                                                    |
| - RRC Message sequence number<br><br>Uplink integrity protection activation info<br>Radio bearer uplink ciphering activation time info | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.<br>Not checked.<br>If ciphering is not activated in SECURITY MODE COMMAND message, this IE must be absent. Else, SS checks this IE for the presence of activation times for all ciphered uplink RLC-UM and RLC-AM RBs. |

## Contents of SECURITY MODE FAILURE message: AM

| Information Element | Value/remark |
|---------------------|--------------|
| Message Type        |              |

|                               |                                                                                                                                                                                                      |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RRC transaction identifier    | Checked to see if the value is the identical to the same IE in the downlink SECURITY MODE COMMAND message.                                                                                           |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Refer to test requirement.                                                                                                                                                                           |

## Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM

| Information Element                                              | Condition              | Value/remark                                                                                                                                                       | Version            | Index   |
|------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|
| Message Type                                                     | A1, A2, A3, A4, A5, A6 |                                                                                                                                                                    |                    | TCR-001 |
| RRC transaction identifier                                       |                        | Arbitrarily selects an integer between 0 and 3                                                                                                                     |                    | TCR-002 |
| Integrity check info                                             |                        |                                                                                                                                                                    |                    | TCR-003 |
| - message authentication code                                    |                        | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                    | TCR-004 |
| - RRC message sequence number                                    |                        | SS provides the value of this IE, from its internal counter.                                                                                                       |                    | TCR-005 |
| Integrity protection mode info                                   |                        | Not Present                                                                                                                                                        |                    | TCR-006 |
| Ciphering mode info                                              |                        | Not Present                                                                                                                                                        |                    | TCR-007 |
| Activation time                                                  | A1, A2, A3             | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |                    | TCR-008 |
| Activation time                                                  | A4, A5, A6             | Not Present                                                                                                                                                        |                    | TCR-009 |
| Delay restriction flag                                           | A1, A2, A3, A4, A5, A6 | Not Present                                                                                                                                                        | Rel-6              | TCR-010 |
| New U-RNTI                                                       |                        | Not Present                                                                                                                                                        |                    | TCR-011 |
| New C-RNTI                                                       | A1, A2, A3, A4         | Not Present                                                                                                                                                        |                    | TCR-012 |
| New C-RNTI                                                       | A5, A6                 | '1010 1010 1010 1010'                                                                                                                                              |                    | TCR-013 |
| New DSCH-RNTI                                                    | A1, A2, A3, A4, A5, A6 | Not Present                                                                                                                                                        | R99 and Rel-4 only | TCR-014 |
| New H-RNTI                                                       | A1, A2, A3, A4, A5, A6 | Not Present                                                                                                                                                        | Rel-5              | TCR-015 |
| New Primary E-RNTI                                               |                        | Not Present                                                                                                                                                        | Rel-6              | TCR-016 |
| New Secondary E-RNTI                                             |                        | Not Present                                                                                                                                                        | Rel-6              | TCR-017 |
| RRC State indicator                                              | A1, A2, A3, A4         | CELL_DCH                                                                                                                                                           |                    | TCR-018 |
| RRC State indicator                                              | A5, A6                 | CELL_FACH                                                                                                                                                          |                    | TCR-019 |
| UE Mobility State Indicator                                      |                        | Not Present                                                                                                                                                        | Rel-7              | TCR-020 |
| UTRAN DRX cycle length coefficient                               | A1, A2, A3, A4, A5, A6 | Not Present                                                                                                                                                        |                    | TCR-021 |
| CN information info                                              |                        | Not Present                                                                                                                                                        |                    | TCR-022 |
| URA identity                                                     |                        | Not Present                                                                                                                                                        |                    | TCR-023 |
| RNC support for change of UE capability                          |                        | Not Present                                                                                                                                                        | Rel-7              | TCR-024 |
| Reconfiguration in response to requested change of UE capability |                        | Not Present                                                                                                                                                        | Rel-7              | TCR-025 |
| Downlink counter synchronization info                            |                        | Not Present                                                                                                                                                        |                    | TCR-026 |
| UL Transport channel information for all transport channels      | A1, A2, A5, A6         | Not Present                                                                                                                                                        |                    | TCR-027 |
| UL Transport channel information for all transport channels      | A3, A4                 |                                                                                                                                                                    |                    | TCR-028 |
| - PRACH TFCS                                                     |                        | Not Present                                                                                                                                                        |                    | TCR-029 |
| - CHOICE mode                                                    |                        | FDD                                                                                                                                                                |                    | TCR-030 |
| - TFC subset                                                     |                        | Not Present                                                                                                                                                        |                    | TCR-031 |
| - UL DCH TFCS                                                    |                        |                                                                                                                                                                    |                    | TCR-032 |
| - CHOICE TFCSI signalling                                        |                        | Normal                                                                                                                                                             |                    | TCR-033 |
| - TFCI Field 1 information                                       |                        |                                                                                                                                                                    |                    | TCR-034 |
| - CHOICE TFCS representation                                     |                        | Complete reconfiguration                                                                                                                                           |                    | TCR-035 |
| - TFCS complete reconfigure                                      |                        |                                                                                                                                                                    |                    | TCR-036 |
| information                                                      |                        |                                                                                                                                                                    |                    |         |
| - CHOICE CTFC Size                                               |                        | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set.                                                           |                    | TCR-037 |



| Information Element                        | Condition      | Value/remark                                                                                                                                                                                                                                                                                                           | Version | Index   |
|--------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| - CTFC information                         |                | This IE is repeated for TFC numbers and reference to clause 6.10.2.4 Parameter Set                                                                                                                                                                                                                                     |         | TCR-038 |
| - CTFC                                     |                | Reference to clause 6.10.2.4 Parameter Set                                                                                                                                                                                                                                                                             |         | TCR-039 |
| - Power offset information                 |                |                                                                                                                                                                                                                                                                                                                        |         | TCR-040 |
| - CHOICE Gain Factors                      |                | Computed Gain Factors (The last TFC is set to Signalled Gain Factors)                                                                                                                                                                                                                                                  |         | TCR-041 |
| - Gain factor $\beta_c$                    |                | 11 (equal or below 64 kbps) when HSDPA is not configured<br>9 (equal or higher than 64 kbps and below 384 kbps) when HSDPA is also configured<br>6 (equal or higher than 384 kbps) when HSDPA is also configured<br>9 (higher than 64 kbps)<br>(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) |         | TCR-042 |
| - Gain factor $\beta_d$                    |                | 15<br>(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)                                                                                                                                                                                                                                          |         | TCR-043 |
| - Reference TFC ID                         |                | 0                                                                                                                                                                                                                                                                                                                      |         | TCR-044 |
| - CHOICE mode                              |                | FDD                                                                                                                                                                                                                                                                                                                    |         | TCR-045 |
| - Power offset $P_{p-m}$                   |                | Not Present                                                                                                                                                                                                                                                                                                            |         | TCR-046 |
| Added or Reconfigured UL TrCH information  | A1, A2, A5, A6 | Not Present                                                                                                                                                                                                                                                                                                            |         | TCR-047 |
| Added or Reconfigured UL TrCH information  | A4             | 2 TrCHs(DCH for DCCH and DCH for DTCH)                                                                                                                                                                                                                                                                                 |         | TCR-048 |
| - Uplink transport channel type            |                | DCH                                                                                                                                                                                                                                                                                                                    |         | TCR-049 |
| - UL Transport channel identity            |                | 5                                                                                                                                                                                                                                                                                                                      |         | TCR-050 |
| - TFS                                      |                |                                                                                                                                                                                                                                                                                                                        |         | TCR-051 |
| - CHOICE Transport channel type            |                | Dedicated transport channels                                                                                                                                                                                                                                                                                           |         | TCR-052 |
| - Dynamic Transport format information     |                |                                                                                                                                                                                                                                                                                                                        |         | TCR-053 |
| - RLC Size                                 |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-054 |
| - Number of TBs and TTI List               |                | (This IE is repeated for TFI number.)                                                                                                                                                                                                                                                                                  |         | TCR-055 |
| - Transmission Time Interval               |                | Not Present                                                                                                                                                                                                                                                                                                            |         | TCR-056 |
| - Number of Transport blocks               |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-057 |
| - CHOICE Logical channel list              |                | All                                                                                                                                                                                                                                                                                                                    |         | TCR-058 |
| - Semi-static Transport Format information |                |                                                                                                                                                                                                                                                                                                                        |         | TCR-059 |
| - Transmission time interval               |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-060 |
| - Type of channel coding                   |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-061 |
| - Coding Rate                              |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-062 |
| - Rate matching attribute                  |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-063 |
| - CRC size                                 |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-064 |
| - Uplink transport channel type            |                | DCH                                                                                                                                                                                                                                                                                                                    |         | TCR-065 |
| - UL Transport channel identity            |                | 1                                                                                                                                                                                                                                                                                                                      |         | TCR-066 |
| - TFS                                      |                |                                                                                                                                                                                                                                                                                                                        |         | TCR-067 |
| - CHOICE Transport channel type            |                | Dedicated transport channels                                                                                                                                                                                                                                                                                           |         | TCR-068 |
| - Dynamic Transport format information     |                |                                                                                                                                                                                                                                                                                                                        |         | TCR-069 |
| - RLC Size                                 |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-070 |
| - Number of TBs and TTI List               |                | (This IE is repeated for TFI number.)                                                                                                                                                                                                                                                                                  |         | TCR-071 |
| - Transmission Time Interval               |                | Not Present                                                                                                                                                                                                                                                                                                            |         | TCR-072 |
| - Number of Transport blocks               |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-073 |
| - CHOICE Logical channel list              |                | All                                                                                                                                                                                                                                                                                                                    |         | TCR-074 |
| - Semi-static Transport Format information |                |                                                                                                                                                                                                                                                                                                                        |         | TCR-075 |
| - Transmission time interval               |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-076 |
| - Type of channel coding                   |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-077 |
| - Coding Rate                              |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-078 |
| - Rate matching attribute                  |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-079 |
| - CRC size                                 |                | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                 |         | TCR-080 |
| Added or Reconfigured UL TrCH information  | A3             | (DCH for DTCH)                                                                                                                                                                                                                                                                                                         |         | TCR-081 |
| - Uplink transport channel type            |                | DCH                                                                                                                                                                                                                                                                                                                    |         | TCR-082 |
| - UL Transport channel identity            |                | 1                                                                                                                                                                                                                                                                                                                      |         | TCR-083 |

| Information Element                       | Condition         | Value/remark                                                                                             | Version | Index   |
|-------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|---------|---------|
| - TFS                                     |                   |                                                                                                          |         | TCR-084 |
| - CHOICE Transport channel type           |                   | Dedicated transport channels                                                                             |         | TCR-085 |
| - Dynamic Transport format                |                   |                                                                                                          |         | TCR-086 |
| information                               |                   |                                                                                                          |         |         |
| - RLC Size                                |                   | Reference to clause 6.10 Parameter Set                                                                   |         | TCR-087 |
| - Number of TBs and TTI List              |                   | (This IE is repeated for TFI number.)                                                                    |         | TCR-088 |
| - Transmission Time Interval              |                   | Not Present                                                                                              |         | TCR-089 |
| - Number of Transport blocks              |                   | Reference to clause 6.10 Parameter Set                                                                   |         | TCR-090 |
| - CHOICE Logical channel list             |                   | All                                                                                                      |         | TCR-091 |
| - Semi-static Transport Format            |                   |                                                                                                          |         | TCR-092 |
| information                               |                   |                                                                                                          |         |         |
| - Transmission time interval              |                   | Reference to clause 6.10 Parameter Set                                                                   |         | TCR-093 |
| - Type of channel coding                  |                   | Reference to clause 6.10 Parameter Set                                                                   |         | TCR-094 |
| - Coding Rate                             |                   | Reference to clause 6.10 Parameter Set                                                                   |         | TCR-095 |
| - Rate matching attribute                 |                   | Reference to clause 6.10 Parameter Set                                                                   |         | TCR-096 |
| - CRC size                                |                   | Reference to clause 6.10 Parameter Set                                                                   |         | TCR-097 |
| CHOICE mode                               | A1,A2,A3,A4,A5,A6 | Not Present                                                                                              |         | TCR-098 |
| DL Transport channel information          | A1, A2, A5,A6     | Not Present                                                                                              |         | TCR-099 |
| common for all transport channel          |                   |                                                                                                          |         |         |
| DL Transport channel information          | A3,A4             |                                                                                                          |         | TCR-100 |
| common for all transport channel          |                   |                                                                                                          |         |         |
| - SCCPCH TFCS                             |                   | Not Present                                                                                              |         | TCR-101 |
| - CHOICE mode                             |                   | FDD                                                                                                      |         | TCR-102 |
| - CHOICE DL parameters                    |                   | Explicit                                                                                                 |         | TCR-103 |
| - DL DCH TFCS                             |                   |                                                                                                          |         | TCR-104 |
| - CHOICE TFCS Signalling                  |                   | Normal                                                                                                   |         | TCR-105 |
| - TFCS Field 1 Information                |                   |                                                                                                          |         | TCR-106 |
| - CHOICE TFCS representation              |                   | Complete reconfiguration                                                                                 |         | TCR-107 |
| - TFCS complete reconfigure               |                   |                                                                                                          |         | TCR-108 |
| - CHOICE CTFC Size                        |                   | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set. |         | TCR-109 |
| - CTFC information                        |                   | This IE is repeated for TFC numbers and reference to clause 6.10.2.4                                     |         | TCR-110 |
| - CTFC                                    |                   | Reference to clause 6.10.2.4 Parameter Set                                                               |         | TCR-111 |
| - Power offset information                |                   | Not Present                                                                                              |         | TCR-112 |
| Added or Reconfigured DL TrCH information | A1, A2, A5, A6    | Not Present                                                                                              |         | TCR-113 |
| Added or Reconfigured DL TrCH information | A4                | 2 TrCHs(DCH for DCCH and DCH for DTCH)                                                                   |         | TCR-114 |
| - Downlink transport channel type         |                   | DCH                                                                                                      |         | TCR-115 |
| - DL Transport channel identity           |                   | 10                                                                                                       |         | TCR-116 |
| - CHOICE DL parameters                    |                   | Same as UL                                                                                               |         | TCR-117 |
| - Uplink transport channel type           |                   | DCH                                                                                                      |         | TCR-118 |
| - UL TrCH identity                        |                   | 5                                                                                                        |         | TCR-119 |
| - DCH quality target                      |                   |                                                                                                          |         | TCR-120 |
| - BLER Quality value                      |                   | Not Present                                                                                              |         | TCR-121 |
| - Downlink transport channel type         |                   | DCH                                                                                                      |         | TCR-122 |
| - DL Transport channel identity           |                   | 6                                                                                                        |         | TCR-123 |
| - CHOICE DL parameters                    |                   | Explicit                                                                                                 |         | TCR-124 |
|                                           |                   | Except for RAB with the symmetric DL and UL rate: Same as UL                                             |         |         |
| - TFS                                     |                   |                                                                                                          |         | TCR-125 |
| - CHOICE Transport channel type           |                   | Dedicated transport channel                                                                              |         | TCR-126 |
| - Dynamic transport format                |                   |                                                                                                          |         | TCR-127 |
| information                               |                   |                                                                                                          |         |         |
| - RLC Size                                |                   | Reference to clause 6.10 Parameter Set                                                                   |         | TCR-128 |
| - Number of TBs and TTI List              |                   | (This IE is repeated for TFI number.)                                                                    |         | TCR-129 |
| - Dynamic transport format                |                   |                                                                                                          |         | TCR-130 |
| information                               |                   |                                                                                                          |         |         |
| - Transmission Time Interval              |                   | Not Present                                                                                              |         | TCR-131 |
| - Number of Transport blocks              |                   | Reference to clause 6.10 Parameter Set                                                                   |         | TCR-132 |
| - Semi-static Transport Format            |                   |                                                                                                          |         | TCR-133 |
| information                               |                   |                                                                                                          |         |         |
| - Transmission time interval              |                   | Reference to clause 6.10 Parameter Set                                                                   |         | TCR-134 |

| Information Element                        | Condition                                                                       | Value/remark                                                                                                                                  | Version | Index   |
|--------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| - Type of channel coding                   | A3                                                                              | Reference to clause 6.10 Parameter Set                                                                                                        |         | TCR-135 |
| - Coding Rate                              |                                                                                 | Reference to clause 6.10 Parameter Set                                                                                                        |         | TCR-136 |
| - Rate matching attribute                  |                                                                                 | Reference to clause 6.10 Parameter Set                                                                                                        |         | TCR-137 |
| - CRC size                                 |                                                                                 | Reference to clause 6.10 Parameter Set                                                                                                        |         | TCR-138 |
| - DCH quality target                       |                                                                                 | -20 (-2.0)                                                                                                                                    |         | TCR-139 |
| - BLER Quality value                       |                                                                                 |                                                                                                                                               |         | TCR-140 |
| Added or Reconfigured DL TrCH information  |                                                                                 |                                                                                                                                               |         | TCR-141 |
| - Downlink transport channel type          |                                                                                 | DCH                                                                                                                                           |         | TCR-142 |
| - DL Transport channel identity            |                                                                                 | 6                                                                                                                                             |         | TCR-143 |
| - CHOICE DL parameters                     |                                                                                 | Explicit                                                                                                                                      |         | TCR-144 |
|                                            | Except for RAB with the symmetric DL and UL rate: Same as UL                    |                                                                                                                                               |         |         |
| - TFS                                      | Dedicated transport channel                                                     | TCR-145                                                                                                                                       |         |         |
| - CHOICE Transport channel type            |                                                                                 | TCR-146                                                                                                                                       |         |         |
| - Dynamic transport format information     |                                                                                 | TCR-147                                                                                                                                       |         |         |
| - RLC Size                                 | Reference to clause 6.10 Parameter Set<br>(This IE is repeated for TFI number.) | TCR-148                                                                                                                                       |         |         |
| - Number of TBs and TTI List               |                                                                                 | TCR-149                                                                                                                                       |         |         |
| - Dynamic transport format information     |                                                                                 | TCR-150                                                                                                                                       |         |         |
| - Transmission Time Interval               | Not Present                                                                     | TCR-151                                                                                                                                       |         |         |
| - Number of Transport blocks               | Reference to clause 6.10 Parameter Set                                          | TCR-152                                                                                                                                       |         |         |
| - Semi-static Transport Format information |                                                                                 | TCR-153                                                                                                                                       |         |         |
| - Transmission time interval               | Reference to clause 6.10 Parameter Set                                          | TCR-154                                                                                                                                       |         |         |
| - Type of channel coding                   |                                                                                 | TCR-155                                                                                                                                       |         |         |
| - Coding Rate                              |                                                                                 | TCR-156                                                                                                                                       |         |         |
| - Rate matching attribute                  |                                                                                 | TCR-157                                                                                                                                       |         |         |
| - CRC size                                 |                                                                                 | TCR-158                                                                                                                                       |         |         |
| - DCH quality target                       |                                                                                 | TCR-159                                                                                                                                       |         |         |
| - BLER Quality value                       | -20 (-2.0)                                                                      | TCR-160                                                                                                                                       |         |         |
| Frequency info                             | A1,A2,A3,A4,A5                                                                  | TCR-161                                                                                                                                       |         |         |
| - UARFCN uplink (Nu)                       |                                                                                 | Not present                                                                                                                                   | TCR-162 |         |
|                                            | A6                                                                              | Absence of this IE is equivalent to applying the default duplex distance defined for the operating frequency according to 3GPP TS 25.101 [11] |         |         |
| - UARFCN downlink (Nd)                     |                                                                                 | Reference to clause 5.1 Test frequencies                                                                                                      | TCR-163 |         |
| Frequency info                             |                                                                                 | Not Present                                                                                                                                   | TCR-164 |         |
| DTX-DRX timing information                 |                                                                                 | Not Present                                                                                                                                   | Rel-7   | TCR-165 |
| DTX-DRX Information                        |                                                                                 | Not Present                                                                                                                                   | Rel-7   | TCR-166 |
| HS-SCCH less Information                   |                                                                                 | Not Present                                                                                                                                   | Rel-7   | TCR-167 |
| MIMO parameters                            | A1, A2, A3, A4, A5, A6                                                          | Not Present                                                                                                                                   | Rel-7   | TCR-168 |
| Maximum allowed UL TX power                |                                                                                 | 33dBm                                                                                                                                         | TCR-169 |         |
| CHOICE <i>channel requirement</i>          | A5, A6                                                                          | Not Present                                                                                                                                   |         | TCR-170 |
| CHOICE channel requirement                 | A1, A2, A3, A4                                                                  | Uplink DPCH info                                                                                                                              |         | TCR-171 |
| -Uplink DPCH power control info            |                                                                                 |                                                                                                                                               |         | TCR-172 |
| - DPCH power offset                        |                                                                                 | -40 (-80dB)                                                                                                                                   |         | TCR-173 |
| - PC Preamble                              |                                                                                 | 1 frame                                                                                                                                       |         | TCR-174 |
| - SRB delay                                |                                                                                 | 7 frames                                                                                                                                      |         | TCR-175 |
| - Power Control Algorithm                  |                                                                                 | Algorithm1                                                                                                                                    |         | TCR-176 |
| - TPC step size                            |                                                                                 | 0 (1dB)                                                                                                                                       |         | TCR-177 |
| - Δ <sub>ACK</sub>                         |                                                                                 | Not Present                                                                                                                                   | Rel-5   | TCR-178 |
| - Δ <sub>NACK</sub>                        |                                                                                 | Not Present                                                                                                                                   | Rel-5   | TCR-179 |
| - Ack-Nack repetition factor               |                                                                                 | Not Present                                                                                                                                   | Rel-5   | TCR-180 |
| - Scrambling code type                     |                                                                                 | Long                                                                                                                                          |         | TCR-181 |
| - Scrambling code number                   |                                                                                 | 0 (0 to 16777215)                                                                                                                             |         | TCR-182 |
| - Number of DPDCH                          |                                                                                 | Not Present(1)                                                                                                                                |         | TCR-183 |
| - spreading factor                         |                                                                                 | Reference to clause 6.10 Parameter Set                                                                                                        |         | TCR-184 |
| - TFCI existence                           |                                                                                 | Reference to clause 6.10 Parameter Set                                                                                                        |         | TCR-185 |
| - Number of FBI bit                        |                                                                                 | Reference to clause 6.10 Parameter Set                                                                                                        |         | TCR-186 |
| - Number of TPC bits                       |                                                                                 | Not Present                                                                                                                                   | Rel-7   | TCR-187 |
| - Puncturing Limit                         |                                                                                 | Reference to clause 6.10 Parameter Set                                                                                                        |         | TCR-188 |
| E-DCH Info                                 |                                                                                 | Not Present                                                                                                                                   | Rel-6   | TCR-189 |

| Information Element                             | Condition              | Value/remark                                    | Version            | Index   |
|-------------------------------------------------|------------------------|-------------------------------------------------|--------------------|---------|
| CHOICE Mode                                     | A1, A2, A3, A4, A5, A6 | FDD                                             | R99 and Rel-4 only | TCR-190 |
| - Downlink PDSCH information                    |                        | Not Present                                     | R99 and Rel-4 only | TCR-191 |
| Downlink HS-PDSCH Information                   | A1, A2, A3, A4, A5, A6 | Not Present                                     | Rel-5              | TCR-192 |
| Downlink information common for all radio links | A5, A6                 | Not Present                                     |                    | TCR-193 |
| Downlink information common for all radio links | A1, A2, A3             |                                                 |                    | TCR-194 |
| - Downlink DPCH info common for all RL          | A4                     |                                                 |                    | TCR-195 |
| - Timing indicator                              |                        | Maintain                                        |                    | TCR-196 |
| - CFN-targetSFN frame offset                    |                        | Not Present                                     |                    | TCR-197 |
| - Downlink DPCH power control information       |                        |                                                 |                    | TCR-198 |
| - DPC mode                                      |                        | 0 (single)                                      |                    | TCR-199 |
| - CHOICE mode                                   |                        | FDD                                             |                    | TCR-200 |
| - Power offset $P_{\text{Pilot-DPCH}}$          |                        | 0                                               |                    | TCR-201 |
| - DL rate matching restriction information      |                        | Not Present                                     |                    | TCR-202 |
| - Spreading factor                              |                        | Reference to clause 6.10 Parameter Set          |                    | TCR-203 |
| - Fixed or Flexible Position                    |                        | Reference to clause 6.10 Parameter Set          |                    | TCR-204 |
| - TFCI existence                                |                        | Reference to clause 6.10 Parameter Set          |                    | TCR-205 |
| - CHOICE SF                                     |                        | Reference to clause 6.10 Parameter Set          |                    | TCR-206 |
| - DPCH compressed mode info                     |                        | Not Present                                     |                    | TCR-207 |
| - TX Diversity mode                             |                        | None                                            |                    | TCR-208 |
| - SSDT information                              |                        | Not Present                                     | R99 and Rel-4 only | TCR-209 |
| - Default DPCH Offset Value                     |                        | Not Present                                     |                    | TCR-210 |
| - MAC-hs reset indicator                        |                        | Not Present                                     | Rel-5              | TCR-211 |
| Downlink information common for all radio links |                        |                                                 |                    | TCR-212 |
| - Downlink DPCH info common for all RL          |                        |                                                 |                    | TCR-213 |
| - Timing indicator                              |                        | Initialize                                      |                    | TCR-214 |
| - CFN-targetSFN frame offset                    |                        | Not Present                                     |                    | TCR-215 |
| - Downlink DPCH power control information       |                        |                                                 |                    | TCR-216 |
| - DPC mode                                      |                        | 0 (single)                                      |                    | TCR-217 |
| - CHOICE mode                                   |                        | FDD                                             |                    | TCR-218 |
| - Power offset $P_{\text{Pilot-DPCH}}$          |                        | 0                                               |                    | TCR-219 |
| - DL rate matching restriction information      |                        | Not Present                                     |                    | TCR-220 |
| - Spreading factor                              |                        | Reference to clause 6.10 Parameter Set          |                    | TCR-221 |
| - Fixed or Flexible Position                    |                        | Reference to clause 6.10 Parameter Set          |                    | TCR-222 |
| - TFCI existence                                |                        | Reference to clause 6.10 Parameter Set          |                    | TCR-223 |
| - CHOICE SF                                     |                        | Reference to clause 6.10 Parameter Set          |                    | TCR-224 |
| - DPCH compressed mode info                     |                        | Not Present                                     |                    | TCR-225 |
| - TX Diversity mode                             |                        | None                                            |                    | TCR-226 |
| - SSDT information                              |                        | Not Present                                     | R99 and Rel-4 only | TCR-227 |
| - Default DPCH Offset Value                     |                        | Arbitrary set to value 0..306688 by step of 512 |                    | TCR-228 |
| - MAC-hs reset indicator                        |                        | Not Present                                     | Rel-5              | TCR-229 |
| Downlink information for each radio link list   | A1, A2, A3             |                                                 |                    | TCR-230 |
| - Downlink information for each radio links     |                        |                                                 |                    | TCR-231 |
| - CHOICE mode                                   |                        | FDD                                             |                    | TCR-232 |
| - Primary CPICH info                            |                        |                                                 |                    | TCR-233 |
| - Primary scrambling code                       |                        | Ref. to the Default setting in clause 6.1 (FDD) |                    | TCR-234 |
| - PDSCH with SHO DCH info                       |                        | Not Present                                     | R99 and Rel-4 only | TCR-235 |
| - PDSCH code mapping                            |                        | Not Present                                     | R99 and Rel-4 only | TCR-236 |

| Information Element                           | Condition | Value/remark                                                                                                                                                                                                                                         | Version            | Index   |
|-----------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|
| - Serving HS-DSCH radio link indicator        |           | FALSE                                                                                                                                                                                                                                                | Rel-5              | TCR-237 |
| - Serving E-DCH radio link indicator          |           | FALSE                                                                                                                                                                                                                                                | Rel-6              | TCR-238 |
| - Downlink DPCH info for each RL              |           |                                                                                                                                                                                                                                                      |                    | TCR-239 |
| - Primary CPICH usage for channel estimation  |           | Primary CPICH may be used                                                                                                                                                                                                                            |                    | TCR-240 |
| - DPCH frame offset                           |           | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400                                                                                                                                                                        |                    | TCR-241 |
| - Power offset $P_{\text{Pilot-DPDCH}}$       |           | 0                                                                                                                                                                                                                                                    |                    | TCR-242 |
| - Secondary CPICH info                        |           | Not Present                                                                                                                                                                                                                                          |                    | TCR-243 |
| - DL channelisation code                      |           |                                                                                                                                                                                                                                                      |                    | TCR-244 |
| - Secondary scrambling code                   |           | 4                                                                                                                                                                                                                                                    |                    | TCR-245 |
| - Spreading factor                            |           | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                               |                    | TCR-246 |
| - Code number                                 |           | 0                                                                                                                                                                                                                                                    |                    | TCR-247 |
| - Scrambling code change                      |           | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") |                    | TCR-248 |
| - TPC combination index                       |           | Set to value Default2: OMIT (otherwise)                                                                                                                                                                                                              |                    | TCR-249 |
| - SSdT Cell Identity                          |           | 0                                                                                                                                                                                                                                                    |                    | TCR-250 |
| - Closed loop timing adjustment mode          |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only | TCR-251 |
| - E-AGCH Info                                 |           | Not Present                                                                                                                                                                                                                                          | Rel-6              | TCR-252 |
| - E-HICH Information                          |           | Not Present                                                                                                                                                                                                                                          | Rel-6              | TCR-253 |
| - E-RGCH Information                          |           | Not Present                                                                                                                                                                                                                                          | Rel-6              | TCR-254 |
| - SCCPCH information for FACH                 |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only | TCR-255 |
| Downlink information for each radio link list | A4        |                                                                                                                                                                                                                                                      |                    | TCR-256 |
| - Downlink information for each radio link    |           |                                                                                                                                                                                                                                                      |                    | TCR-257 |
| - CHOICE mode                                 |           | FDD                                                                                                                                                                                                                                                  |                    | TCR-258 |
| - Primary CPICH info                          |           |                                                                                                                                                                                                                                                      |                    | TCR-259 |
| - Primary scrambling code                     |           | Ref. to the Default setting in clause 6.1 (FDD)                                                                                                                                                                                                      |                    | TCR-260 |
| - PDSCH with SHO DCH info                     |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only | TCR-261 |
| - PDSCH code mapping                          |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only | TCR-262 |
| - Serving HS-DSCH radio link indicator        |           | FALSE                                                                                                                                                                                                                                                | Rel-5              | TCR-263 |
| - Serving E-DCH radio link indicator          |           | FALSE                                                                                                                                                                                                                                                | Rel-6              | TCR-264 |
| - Downlink DPCH info for each RL              |           |                                                                                                                                                                                                                                                      |                    | TCR-265 |
| - Primary CPICH usage for channel estimation  |           | Primary CPICH may be used                                                                                                                                                                                                                            |                    | TCR-266 |
| - DPCH frame offset                           |           | Set to value: Default DPCH Offset Value mod 38 400                                                                                                                                                                                                   |                    | TCR-267 |
| - Power offset $P_{\text{Pilot-DPDCH}}$       |           | 0                                                                                                                                                                                                                                                    |                    | TCR-268 |
| - Secondary CPICH info                        |           | Not Present                                                                                                                                                                                                                                          |                    | TCR-269 |
| - DL channelisation code                      |           |                                                                                                                                                                                                                                                      |                    | TCR-270 |
| - Secondary scrambling code                   |           | 4                                                                                                                                                                                                                                                    |                    | TCR-271 |
| - Spreading factor                            |           | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                               |                    | TCR-272 |
| - Code number                                 |           | 0                                                                                                                                                                                                                                                    |                    | TCR-273 |
| - Scrambling code change                      |           | Set to value Default1: No code change (if the UE has a compressed mode pattern sequence configured in variable TGPS_IDENTITY or included in the message including IE "Downlink DPCH info for each RL", which is using compressed mode method "SF/2") |                    | TCR-274 |
| - TPC combination index                       |           | Set to value Default2: OMIT (otherwise)                                                                                                                                                                                                              |                    | TCR-275 |
| - SSdT Cell Identity                          |           | 0                                                                                                                                                                                                                                                    |                    | TCR-276 |
| - Closed loop timing adjustment               |           | Not Present                                                                                                                                                                                                                                          | R99 and Rel-4 only | TCR-277 |

| Information Element                        | Condition              | Value/remark                                    | Version            | Index   |
|--------------------------------------------|------------------------|-------------------------------------------------|--------------------|---------|
| mode                                       |                        |                                                 |                    |         |
| - E-AGCH Info                              |                        | Not Present                                     | Rel-6              | TCR-278 |
| - E-HICH Information                       |                        | Not Present                                     | Rel-6              | TCR-279 |
| - E-RGCH Information                       |                        | Not Present                                     | Rel-6              | TCR-280 |
| - SCCPCH information for FACH              |                        | Not Present                                     | R99 and Rel-4 only | TCR-281 |
| - Downlink information for each radio link | A5                     |                                                 |                    | TCR-282 |
| - Choice mode                              |                        | FDD                                             |                    | TCR-283 |
| - Primary CPICH info                       |                        | Ref. to the Default setting in clause 6.1 (FDD) |                    | TCR-284 |
| - Primary scrambling code                  |                        |                                                 |                    | TCR-285 |
| - PDSCH with SHO DCH info                  |                        | Not Present                                     | R99 and Rel-4 only | TCR-286 |
| - PDSCH code mapping                       |                        | Not Present                                     | R99 and Rel-4 only | TCR-287 |
| - Serving HS-DSCH radio link indicator     |                        | FALSE                                           | Rel-5              | TCR-288 |
| - Serving E-DCH radio link indicator       |                        | FALSE                                           | Rel-6              | TCR-289 |
| - Downlink DPCH info for each RL           |                        | Not present                                     |                    | TCR-290 |
| - E-AGCH Info                              |                        | Not Present                                     | Rel-6              | TCR-291 |
| - E-HICH Information                       |                        | Not Present                                     | Rel-6              | TCR-292 |
| - E-RGCH Information                       |                        | Not Present                                     | Rel-6              | TCR-293 |
| - SCCPCH information for FACH              |                        | Not Present                                     | R99 and Rel-4 only | TCR-294 |
| - Downlink information for each radio link | A6                     | Not Present                                     |                    | TCR-295 |
| MBMS PL Service Restriction Information    | A1, A2, A3, A4, A5, A6 | Not Present                                     | Rel-6              | TCR-296 |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

## Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                         | Checked to see if the value is identical to the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message                                                                                    |
| Integrity check info                               |                                                                                                                                                                                                      |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |
| CHOICE mode                                        | FDD                                                                                                                                                                                                  |
| Deferred measurement control reading               | Not present for Rel-7 or later, otherwise Not checked                                                                                                                                                |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |
| Uplink counter synchronization info                | Not present                                                                                                                                                                                          |

## Contents of TRANSPORT CHANNEL RECONFIGURATION FAILURE message: AM

| Information Element        | Value/remark                                                                                                             |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Message Type               |                                                                                                                          |
| RRC transaction identifier | Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message. |
| Integrity check info       |                                                                                                                          |

|                               |                                                                                                                                                                                                      |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Checked to see if it meets test requirement                                                                                                                                                          |

Contents of TRANSPORT FORMAT COMBINATION CONTROL message: AM or UM (in CELL\_DCH)

| Information Element                    | Value/remark                                                                                                                                                       |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                           |                                                                                                                                                                    |
| RRC transaction identifier             | Arbitrarily selects an integer between 0 and 3                                                                                                                     |
| Integrity check info                   |                                                                                                                                                                    |
| - Message authentication code          | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number          | SS provides the value of this IE, from its internal counter.                                                                                                       |
| CHOICE mode                            | FDD                                                                                                                                                                |
| DPCH/PUSCH TFCS in Uplink              |                                                                                                                                                                    |
| - CHOICE <i>Subset representation</i>  | Allowed transport format combination list                                                                                                                          |
| - Allowed Transport format combination | 0 (The TFC is constructed from ALL TF0)                                                                                                                            |
| Activation time for TFC subset         | Not Present                                                                                                                                                        |
| TFC Control duration                   | Not Present                                                                                                                                                        |

Contents of TRANSPORT FORMAT COMBINATION CONTROL FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identifier    | Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message.                                                                             |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Checked to see if it meets test requirement                                                                                                                                                          |

Contents of UE CAPABILITY ENQUIRY message: AM or UM

| Information Element                                  | Value/remark                                                                                                                                                       |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                         |                                                                                                                                                                    |
| RRC transaction identifier                           | Arbitrarily selects an integer between 0 and 3                                                                                                                     |
| Integrity check info                                 |                                                                                                                                                                    |
| - Message authentication code                        | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                        | SS provides the value of this IE, from its internal counter.                                                                                                       |
| Capability update requirement                        |                                                                                                                                                                    |
| - UE radio access FDD capability update requirement  | TRUE                                                                                                                                                               |
| - UE radio access TDD capability update requirement  | FALSE                                                                                                                                                              |
| - System specific capability update requirement list | Not Present                                                                                                                                                        |

Contents of UE CAPABILITY INFORMATION message: AM

| Information Element        | Value/remark                                                                                           |
|----------------------------|--------------------------------------------------------------------------------------------------------|
| Message Type               |                                                                                                        |
| RRC transaction identifier | Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message. |
| Integrity check info       |                                                                                                        |

| Information Element                  | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Message authentication code        | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.<br>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.<br>Value will be checked. Stated capability must be compatible with 3GPP TS 34.123-2 [3] (ICS statements) and the user settings |
| - RRC Message sequence number        |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| UE radio access capability           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| - Access stratum release indicator   |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| - PDCP Capability                    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| - RLC Capability                     | Value will be checked. Stated capability must be compatible with 3GPP TS 34.123-2 [3] (ICS statements) and the user settings                                                                                                                                                                                                                                                                                                             |
| - Transport channel capability       |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| - RF Capability FDD                  |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| - RF Capability TDD                  |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| - Physical channel capability        |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| - UE multi-mode/multi-RAT capability | Value will be checked. Stated capability must be compatible with 3GPP TS 34.123-2 [3] (ICS statements) and the user settings                                                                                                                                                                                                                                                                                                             |
| - Security Capability                |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| - UE positioning Capability          |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| - Measurement capability             | Not Checked                                                                                                                                                                                                                                                                                                                                                                                                                              |
| UE radio access capability extension |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| UE system specific capability        |                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Contents of UE CAPABILITY INFORMATION CONFIRM message: AM or UM

| Information Element           | Value/remark                                                                                                                                                                                                                       |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  | Set to the same value as received in the UE CAPABILITY INFORMATION message.                                                                                                                                                        |
| RRC transaction identifier    |                                                                                                                                                                                                                                    |
| Integrity check info          | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.<br>SS provides the value of this IE, from its internal counter. |
| - Message authentication code |                                                                                                                                                                                                                                    |
| - RRC Message sequence number |                                                                                                                                                                                                                                    |

## Contents of UE INFORMATION REQUEST: AM

| Information Element                | Condition | Value/remark                                                                                                                                                                                                                       | Version |
|------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                       |           | Arbitrarily selects an integer between 0 and 3                                                                                                                                                                                     | Rel-10  |
| RRC transaction identifier         |           |                                                                                                                                                                                                                                    | Rel-10  |
| Integrity check info               |           | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.<br>SS provides the value of this IE, from its internal counter. | Rel-10  |
| - message authentication code      |           |                                                                                                                                                                                                                                    |         |
| - RRC message sequence number      |           |                                                                                                                                                                                                                                    |         |
| Logged Measurements Report Request | A1        | Not Present                                                                                                                                                                                                                        | Rel-10  |
| Logged ANR Report Request          | A1        | TRUE                                                                                                                                                                                                                               | Rel-10  |

| Condition | Explanation                                        | Version |
|-----------|----------------------------------------------------|---------|
| A1        | Configuring of IE for requesting Logged ANR Report | Rel-10  |

## Contents of UE INFORMATION RESPONSE: AM

| Information Element           | Value/remark                                          | Version |
|-------------------------------|-------------------------------------------------------|---------|
| Message Type                  | Arbitrarily selects an integer between 0 and 3        | Rel-10  |
| RRC transaction identifier    |                                                       | Rel-10  |
| Integrity check info          | SS calculates the value of MAC-I for this message and | Rel-10  |
| - message authentication code |                                                       |         |



| Information Element           | Value/remark                                                                                                 | Version |
|-------------------------------|--------------------------------------------------------------------------------------------------------------|---------|
| - RRC message sequence number | writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. | Rel-10  |
| Logged Meas Report            | SS provides the value of this IE, from its internal counter.                                                 | Rel-10  |
| Logged ANR Report Info        | Not Checked                                                                                                  | Rel-10  |

## Contents of URA UPDATE message: TM

| Information Element              | Value/remark                                                                                                                                                                                         | Version |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                     |                                                                                                                                                                                                      |         |
| U-RNTI                           |                                                                                                                                                                                                      |         |
| - SRNC identity                  | 0000 0000 0001B                                                                                                                                                                                      |         |
| - S-RNTI                         | 0000 0000 0000 0000 0001B                                                                                                                                                                            |         |
| RRC transaction identifier       | Checked to see if it is absent                                                                                                                                                                       |         |
| Integrity check info             |                                                                                                                                                                                                      |         |
| - Message authentication code    | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number    | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| URA update cause                 | See the test content                                                                                                                                                                                 |         |
| Protocol error indicator         | Checked to see if it is absent or set to 'FALSE'                                                                                                                                                     |         |
| HS-PDSCH in CELL_PCH and URA_PCH | Not checked                                                                                                                                                                                          |         |
| HS-PDSCH in CELL_FACH            | Not checked                                                                                                                                                                                          |         |
| Protocol error information       | Checked to see if it is absent                                                                                                                                                                       |         |
| Logged Meas Available            | Not checked                                                                                                                                                                                          | Rel-10  |

## Contents of URA UPDATE CONFIRM message: UM

| Information Element                     | Value/remark                                                                                                                                                       | Version |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                            |                                                                                                                                                                    |         |
| U-RNTI                                  | If this message is sent on CCCH, use the following values. Else, this IE is absent.                                                                                |         |
| - SRNC identity                         | 0000 0000 0001B                                                                                                                                                    |         |
| - S-RNTI                                | 0000 0000 0000 0000 0001B                                                                                                                                          |         |
| RRC transaction identifier              | Arbitrarily selects and integer between 0 and 3                                                                                                                    |         |
| Integrity check info                    |                                                                                                                                                                    |         |
| - message authentication code           | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC message sequence number           | SS provides the value of this IE, from its internal counter.                                                                                                       |         |
| Integrity protection mode info          | Not Present                                                                                                                                                        |         |
| Ciphering mode info                     | Not Present                                                                                                                                                        |         |
| New U-RNTI                              | Not Present                                                                                                                                                        |         |
| New C-RNTI                              | Not Present                                                                                                                                                        |         |
| RRC state indicator                     | URA_PCH                                                                                                                                                            |         |
| UTRAN DRX cycle length coefficient      | 3                                                                                                                                                                  |         |
| CN information info                     | Not Present                                                                                                                                                        |         |
| URA identity                            | Not Present                                                                                                                                                        |         |
| RNC support for change of UE capability | Not Present                                                                                                                                                        |         |
| Downlink counter synchronization info   | Not Present                                                                                                                                                        |         |
| Logged Meas Available                   | Not Present                                                                                                                                                        | Rel-10  |
| ANR Logging Results Available           | Not Present                                                                                                                                                        | Rel-10  |

## Contents of UPLINK DIRECT TRANSFER message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |

|                               |                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------|
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. |
| CN domain identity            | Checked to see if set to a CN domain for which a signalling connection exists                    |
| NAS message                   | Set according to that indicated in specific message content clause                               |
| Measured results on RACH      | Not checked                                                                                      |

Contents of UTRAN MOBILITY INFORMATION message: AM or UM

| Information Element                       | Condition          | Value/remark                                                                                                                                                       |
|-------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                              |                    |                                                                                                                                                                    |
| Integrity check info                      |                    |                                                                                                                                                                    |
| - message authentication code             |                    | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number             |                    | SS provides the value of this IE, from its internal counter.                                                                                                       |
| RRC transaction identifier                |                    | Arbitrarily selects an integer between 0 and 3                                                                                                                     |
| Integrity protection mode info            |                    | Not Present                                                                                                                                                        |
| Ciphering mode info                       |                    | Not Present                                                                                                                                                        |
| New U-RNTI                                |                    | See the test content                                                                                                                                               |
| New C-RNTI                                |                    | See the test content                                                                                                                                               |
| New H-RNTI                                |                    | Not Present                                                                                                                                                        |
| UE Timers and constants in connected mode |                    |                                                                                                                                                                    |
| - T301                                    |                    | 2 000 milliseconds                                                                                                                                                 |
| - N301                                    |                    | 2                                                                                                                                                                  |
| - T302                                    |                    | 4 000 milliseconds                                                                                                                                                 |
| - N302                                    |                    | 3                                                                                                                                                                  |
| - T304                                    |                    | 1 000 milliseconds                                                                                                                                                 |
| - N304                                    |                    | 3                                                                                                                                                                  |
| - T305                                    |                    | 60 minutes                                                                                                                                                         |
| - T307                                    |                    | 50 seconds                                                                                                                                                         |
| - T308                                    |                    | 320 milliseconds                                                                                                                                                   |
| - T309                                    |                    | 8 seconds                                                                                                                                                          |
| - T310                                    |                    | 320 milliseconds                                                                                                                                                   |
| - N310                                    |                    | 5                                                                                                                                                                  |
| - T311                                    |                    | 500 milliseconds                                                                                                                                                   |
| - T312                                    |                    | 5 seconds                                                                                                                                                          |
| - N312                                    |                    | 200                                                                                                                                                                |
| - T313                                    |                    | 10 seconds                                                                                                                                                         |
| - N313                                    |                    | 200                                                                                                                                                                |
| - T314                                    |                    | 20 seconds                                                                                                                                                         |
| - T315                                    |                    | 30 seconds                                                                                                                                                         |
| - N315                                    |                    | 200                                                                                                                                                                |
| - T316                                    |                    | 50 seconds                                                                                                                                                         |
| - T317                                    |                    | 1 800 seconds                                                                                                                                                      |
| CN information info                       |                    | Not Present                                                                                                                                                        |
| URA identity                              |                    | Not present                                                                                                                                                        |
| RNC support for change of UE capability   |                    | Not Present                                                                                                                                                        |
| Downlink counter synchronization info     |                    | Not Present                                                                                                                                                        |
| Dedicated WLAN Offload Information        | WLAN               |                                                                                                                                                                    |
| - CHOICE Configuration info               |                    | New configuration                                                                                                                                                  |
| - T330                                    |                    | 10                                                                                                                                                                 |
| - WLAN Offload Information                |                    |                                                                                                                                                                    |
| - WLAN Offload Configuration              |                    |                                                                                                                                                                    |
| -Threshold Serving RSCP                   | RSCP               |                                                                                                                                                                    |
| -ThreshservingOffloadWLAN, low            |                    | Set according to specific message content                                                                                                                          |
| -ThreshservingOffloadWLAN, high           |                    | Set according to specific message content                                                                                                                          |
| -Threshold Serving Ec/No                  | Ec/No              |                                                                                                                                                                    |
| -ThreshservingOffloadWLAN, low2           |                    | Set according to specific message content                                                                                                                          |
| -ThreshservingOffloadWLAN, high2          |                    | Set according to specific message content                                                                                                                          |
| -Threshold Channel Utilization            | ChannelUtilization |                                                                                                                                                                    |
| -ThreshchUtilWLAN, low                    |                    | Set according to specific message content                                                                                                                          |
| -ThreshchUtilWLAN, high                   |                    | Set according to specific message content                                                                                                                          |
| -Threshold Backhaul Bandwidth             | BackHaul           |                                                                                                                                                                    |
| -ThreshbackhRateDLWLAN, low               |                    | Set according to specific message content                                                                                                                          |
| -ThreshbackhRateDLWLAN, high              |                    | Set according to specific message content                                                                                                                          |
| -ThreshbackhRateULWLAN, low               |                    | Set according to specific message content                                                                                                                          |
| -ThreshbackhRateULWLAN, high              |                    | Set according to specific message content                                                                                                                          |
| -Threshold Beacon RSSI                    | RSSI               |                                                                                                                                                                    |
| -ThreshBeaconRSSIWLAN, low                |                    | Set according to specific message content                                                                                                                          |
| -ThreshBeaconRSSIWLAN, high               |                    | Set according to specific message content                                                                                                                          |
| -Offload Preference Indicator             |                    | '1111 1111 1111 1111'B                                                                                                                                             |
| -TsteeringWLAN                            |                    | 0                                                                                                                                                                  |

|                       |  |                                        |
|-----------------------|--|----------------------------------------|
| -WLAN Identifier List |  | Only 1 WLAN identifier bradcasted      |
| - WLAN Identifier     |  |                                        |
| - WLAN Type ID        |  |                                        |
| - SSID                |  | Set as per Table 4.4.8-1 of 36.508[45] |
| -BSSID                |  | Not Present                            |
| -HESSID               |  | Not Present                            |

| Condition          | Explanation                                         |
|--------------------|-----------------------------------------------------|
| WLAN               | RAN Assisted WLAN interworking test cases           |
| RSCP               | RSCP based thresholds are to be used                |
| Ec/No              | Ec/No based thresholds are to be used               |
| ChannelUtilization | Channel Utilization based thresholds are to be used |
| BackHaul           | BackHaul Bandwidth based thresholds are to be used  |
| RSSI               | Beacon RSSI based thresholds are to be used         |

Contents of UTRAN MOBILITY INFORMATION CONFIRM message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                         | Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message                                                                                                 |
| Integrity check info                               |                                                                                                                                                                                                      |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |
| Deferred measurement control reading               | Not Present for Rel-7 or later, otherwise Not checked                                                                                                                                                |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |
| Uplink counter synchronization info                | Not present                                                                                                                                                                                          |

Contents of UTRAN MOBILITY INFORMATION FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identifier    | Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message                                                                                                 |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure Cause                 | Checked to see if it meets test requirement                                                                                                                                                          |

## 9.1.2 Default Message Contents for Signalling (TDD)

Contents of RRC STATUS message: AM

| Information Element                | Value/remark                                                                                                                                                                                         |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                       |                                                                                                                                                                                                      |
| Integrity check info               |                                                                                                                                                                                                      |
| - Message authentication code      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Identification of received message | Not checked                                                                                                                                                                                          |
| Protocol error information         |                                                                                                                                                                                                      |
| - Protocol error cause             | Refer to test requirement.                                                                                                                                                                           |

Contents of SECURITY MODE FAILURE message: AM

| Information Element            | Value/remark                                                                                                                                                                                         |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                   |                                                                                                                                                                                                      |
| <b>UE information elements</b> |                                                                                                                                                                                                      |
| RRC transaction identifier     | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message.                                                           |
| Integrity check info           |                                                                                                                                                                                                      |
| - Message authentication code  | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number  | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                  | Refer to test requirement.                                                                                                                                                                           |

Contents of URA UPDATE message: TM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| U-RNTI                        | Checked to see if it is set to the following values                                                                                                                                                  |
| - SRNC identity               | 0000 0000 0001B                                                                                                                                                                                      |
| - S-RNTI                      | 0000 0000 0000 0000 0001B                                                                                                                                                                            |
| RRC transaction identifier    | Checked to see if it is absent                                                                                                                                                                       |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| URA update cause              | See the test content                                                                                                                                                                                 |
| Protocol error indicator      | Checked to see if it is absent or set to 'FALSE'                                                                                                                                                     |
| Protocol error information    | Checked to see if it is absent                                                                                                                                                                       |

Contents of URA UPDATE CONFIRM message: UM

| Information Element           | Value/remark                                                                                                                     |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                  |
| U-RNTI                        | If this message is sent on CCCH, use the following values. Else, this IE is absent.                                              |
| - SRNC identity               | 0000 0000 0001B                                                                                                                  |
| - S-RNTI                      | 0000 0000 0000 0000 0001B                                                                                                        |
| RRC transaction identifier    | Arbitrarily selects an integer between 0 and 3                                                                                   |
| Integrity check info          |                                                                                                                                  |
| - Message authentication code | Set to MAC-I value computed by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message Sequence Number | Set to an arbitrarily selected integer between 0 and 15                                                                          |

| Information Element                   | Value/remark         |
|---------------------------------------|----------------------|
| Integrity protection mode info        | Not present          |
| Ciphering mode info                   | Not present          |
| New U-RNTI                            | Not present          |
| New C-RNTI                            | Not present          |
| RRC State Indicator                   | URA_PCH              |
| UTRAN DRX cycle length coefficient    | 3                    |
| CN Information info                   | Not present          |
| URA identity                          | See the test content |
| Downlink counter synchronization info | Not present          |

## Contents of UPLINK DIRECT TRANSFER message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| CN domain identity            | Checked to see if set to a CN domain for which a signalling connection exists                                                                                                                        |
| NAS message                   | Set according to that indicated in specific message content for each test case                                                                                                                       |
| Measured results on RACH      | Not checked                                                                                                                                                                                          |

## Contents of UTRAN MOBILITY INFORMATION message: AM or UM

| Information Element                       | Value/remark                                                                                                                     |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Message Type                              |                                                                                                                                  |
| Integrity check info                      |                                                                                                                                  |
| - Message authentication code             | Set to MAC-I value computed by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message Sequence Number             | Set to an arbitrarily selected integer between 0 and 15                                                                          |
| RRC transaction identifier                | Arbitrarily selects and integer between 0 and 3                                                                                  |
| Integrity protection mode info            | Not present                                                                                                                      |
| Ciphering mode info                       | Not present                                                                                                                      |
| New U-RNTI                                | See the test content                                                                                                             |
| New C-RNTI                                | See the test content                                                                                                             |
| UE Timers and constants in connected mode |                                                                                                                                  |
| - T301                                    | 2 000 milliseconds                                                                                                               |
| - N301                                    | 2                                                                                                                                |
| - T302                                    | 4 000 milliseconds                                                                                                               |
| - N302                                    | 3                                                                                                                                |
| - T304                                    | 1 000 milliseconds                                                                                                               |
| - N304                                    | 3                                                                                                                                |
| - T305                                    | 60 minutes                                                                                                                       |
| - T307                                    | 50 seconds                                                                                                                       |
| - T308                                    | 320 milliseconds                                                                                                                 |
| - T309                                    | 8 seconds                                                                                                                        |
| - T310                                    | 320 milliseconds                                                                                                                 |
| - N310                                    | 5                                                                                                                                |
| - T311                                    | 500 milliseconds                                                                                                                 |
| - T312                                    | 5 seconds                                                                                                                        |
| - N312                                    | 200                                                                                                                              |
| - T313                                    | 10 seconds                                                                                                                       |
| - N313                                    | 200                                                                                                                              |
| - T314                                    | 20 seconds                                                                                                                       |
| - T315                                    | 30 seconds                                                                                                                       |
| - N315                                    | 200                                                                                                                              |
| - T316                                    | 50 seconds                                                                                                                       |
| - T317                                    | 1 800 seconds                                                                                                                    |
| CN Information info                       | Not present                                                                                                                      |

| Information Element                   | Value/remark |
|---------------------------------------|--------------|
| URA identity                          | Not present  |
| Downlink counter synchronization info | Not present  |

Contents of UTRAN MOBILITY INFORMATION CONFIRM message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       |                                                                                                                                                                                                      |
| RRC transaction identifier                         | Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message                                                                                                 |
| Integrity check info                               |                                                                                                                                                                                                      |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |
| Uplink counter synchronization info                | Not checked                                                                                                                                                                                          |

Contents of UTRAN MOBILITY INFORMATION FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identifier    | Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message                                                                                                 |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure Cause                 | Checked to see if it meets test requirement                                                                                                                                                          |

Contents of UE CAPABILITY ENQUIRY message

| Information Element                                           | Value/remark                                                                                                                                                                   |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                  | UE CAPABILITY ENQUIRY                                                                                                                                                          |
| Integrity check info                                          | Not Present                                                                                                                                                                    |
| - Message authentication code                                 | If present, SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                                 | If present, SS provides the value of this IE, from its internal counter.                                                                                                       |
| RRC transaction identifier                                    | Arbitrarily selects an integer between 0 and 3                                                                                                                                 |
| Capability update requirement                                 |                                                                                                                                                                                |
| - UE radio access FDD capability update requirement           | FALSE                                                                                                                                                                          |
| - UE radio access 3.84 Mcps TDD capability update requirement | FALSE                                                                                                                                                                          |
| - UE radio access 1.28 Mcps TDD capability update requirement | TRUE                                                                                                                                                                           |
| - System specific capability update requirement list          | Not Present                                                                                                                                                                    |

Contents of UE CAPABILITY INFORMATION message (1.28 Mpcs TDD)

| Information Element           | Value/remark                                                  |
|-------------------------------|---------------------------------------------------------------|
| Message Type                  | UE CAPABILITY INFORMATION                                     |
| Integrity check info          | Not Present                                                   |
| - Message authentication code | If present, SS calculates the value of MAC-I for this message |

| Information Element                                          | Value/remark                                                                                                     |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| - RRC Message sequence number                                | and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| RRC transaction identifier                                   | If present, SS provides the value of this IE, from its internal counter.                                         |
| UE radio access capability                                   | Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message.           |
| - Access stratum release indicator                           | Present                                                                                                          |
| - DL capability with simultaneous HS-DSCH configuration      | Rel-5                                                                                                            |
| - PDCP capability                                            | Not Present                                                                                                      |
| - Support for lossless SRNS relocation                       | TRUE                                                                                                             |
| - Support for RFC2507                                        | TRUE                                                                                                             |
| - Max HC context space                                       | 512                                                                                                              |
| - Support for RFC3095                                        | FALSE                                                                                                            |
| - RLC capability                                             |                                                                                                                  |
| - Total RLC AM buffer size                                   | 150                                                                                                              |
| - Maximum RLC AM Window Size                                 | 2 047                                                                                                            |
| - Maximum number of AM entities                              | 30                                                                                                               |
| - Transport channel capability                               |                                                                                                                  |
| - Downlink transport channel capability information elements |                                                                                                                  |
| - Max number of bits received                                | 640                                                                                                              |
| - Max convolutionally coded bits received                    | 6 400                                                                                                            |
| - Max turbo coded bits received                              | 6 400                                                                                                            |
| - Max number of simultaneous transport channels              | 8                                                                                                                |
| - Maximum number of simultaneous CCH                         | 1                                                                                                                |
| - Max number of received transport blocks                    | 32                                                                                                               |
| - Max number of TFC                                          | 128                                                                                                              |
| - Max number of TF                                           | 64                                                                                                               |
| - Turbo decoding supported                                   | TRUE                                                                                                             |
| - Uplink transport channel capability information elements   |                                                                                                                  |
| - Max number of bits transmitted                             | 6 400                                                                                                            |
| - Max convolutionally coded bits transmitted                 | 6 400                                                                                                            |
| - Max turbo coded bits transmitted                           | 6 400                                                                                                            |
| - Max number of simultaneous transport channels              | 8                                                                                                                |
| - Max number of simultaneous CCH of DCH                      | 1                                                                                                                |
| - Max number of transmitted transport blocks                 | 16                                                                                                               |
| - max number of TFC                                          | 64                                                                                                               |
| - Max number of TF                                           | 32                                                                                                               |
| - Turbo coding supported                                     | TRUE                                                                                                             |
| - RF capability FDD                                          | Not Present                                                                                                      |
| - RF capability TDD                                          | Present                                                                                                          |
| - UE power class                                             | 1                                                                                                                |
| - Radio frequency bands                                      | a                                                                                                                |
| - Chip rate capability                                       | 1.28 Mcps                                                                                                        |
| - Physical channel capability                                |                                                                                                                  |
| -Downlink physical channel capability information            |                                                                                                                  |
| - FDD physical channel capability                            | Not Present                                                                                                      |
| - 3.84 Mcps TDD downlink physical channel capability         | Not Present                                                                                                      |
| - 1.28 Mcps TDD downlink physical channel capability         | Present                                                                                                          |
| - maxTS per subFrame                                         | 6                                                                                                                |
| - max physical channel per frame                             | 96                                                                                                               |
| - min. SF                                                    | 16                                                                                                               |
| - Support of PDSCH                                           | FALSE                                                                                                            |
| - Support of HS-PDSCH                                        | Unsupported                                                                                                      |
| - max. physical channel per TS                               | 16                                                                                                               |
| - Support of 8psk                                            | FALSE                                                                                                            |
| -Uplink physical channel capability information              |                                                                                                                  |
| - FDD physical channel capability                            | Not Present                                                                                                      |
| - 3.84 Mcps TDD uplink physical channel capability           | Not Present                                                                                                      |
| - 1.28 Mcps TDD uplink physical channel capability           | Present                                                                                                          |
| - maxTS per subFrame                                         | 6                                                                                                                |
| - max physical channel per timeslot                          | 2                                                                                                                |



| Information Element                                                  | Value/remark |
|----------------------------------------------------------------------|--------------|
| - min. SF                                                            | 16           |
| - Support of PDSCH                                                   | FALSE        |
| - max. physical channel per TS                                       | 16           |
| - Support of 8psk                                                    | FALSE        |
| - UE multi-mode/multi-RAT capability                                 |              |
| - MultiRAT capability List                                           |              |
| - Support of GSM                                                     | FALSE        |
| - Support of Multicarrier                                            | TRUE         |
| - MultiMode capability                                               | TDD          |
| - Support of UTRAN to GERAN NACC                                     | FALSE        |
| - Security capability                                                |              |
| - Ciphering algorithm capability                                     |              |
| - UEA0                                                               | FALSE        |
| - UEA1                                                               | FALSE        |
| - Spare                                                              | FALSE        |
| - Integrity protection algorithm                                     |              |
| - UIA1                                                               | FALSE        |
| - Spare                                                              | FALSE        |
| - UE positioning capability                                          |              |
| - Standalone location method(s) supported                            | FALSE        |
| - UE based OTDOA supported                                           | FALSE        |
| - Network Assisted GPS support                                       | None         |
| - Support for GPS timing of cell frames measurement                  | FALSE        |
| - Support for IPDL                                                   | FALSE        |
| - Support for RX-TX time difference type2 measurement                | FALSE        |
| - Support for Up measurement validity in CELL-PCH and URA-PCH states | FALSE        |
| - Measurement capability                                             | Not Present  |
| UE system specific capability                                        | Not present  |

## Contents of UE CAPABILITY INFORMATION CONFIRM message

| Information Element           | Value/remark                                                                                                                                                                   |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  | UE CAPABILITY INFORMATION                                                                                                                                                      |
| Integrity check info          | Not Present                                                                                                                                                                    |
| - Message authentication code | If present, SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | If present, SS provides the value of this IE, from its internal counter.                                                                                                       |
| RRC transaction identifier    | Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message.                                                                         |

## Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM (3.84 Mcps TDD)

| Information Element            | Condition                               | Value/remark                                                                                                                                                       | Version | Index    |
|--------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                   | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 |                                                                                                                                                                    |         | TCR3-001 |
| RRC transaction identifier     |                                         | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | TCR3-002 |
| Integrity check info           |                                         |                                                                                                                                                                    |         | TCR3-003 |
| - message authentication code  |                                         | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | TCR3-004 |
| - RRC message sequence number  |                                         | SS provides the value of this IE, from its internal counter.                                                                                                       |         | TCR3-005 |
| Integrity protection mode info |                                         | Not Present                                                                                                                                                        |         | TCR3-006 |
| Ciphering mode info            |                                         | Not Present                                                                                                                                                        |         | TCR3-007 |
| Activation time                | A1, A2, A3                              | (256+CFN-(CFN MOD 8 +                                                                                                                                              |         | TCR3-008 |

| Information Element                                                | Condition                                        | Value/remark              | Version | Index    |
|--------------------------------------------------------------------|--------------------------------------------------|---------------------------|---------|----------|
| Activation time                                                    | A4, A5, A6,<br>A7, A8, A9,<br>A10                | 8))MOD 256<br>Not Present |         | TCR3-009 |
| New U-RNTI                                                         |                                                  | Not Present               |         | TCR3-010 |
| New C-RNTI                                                         | A1, A2, A3,<br>A4, A7, A8,<br>A9, A10            | Not Present               |         | TCR3-011 |
| New C-RNTI                                                         | A5, A6                                           | '1010 1010 1010 1010'     |         | TCR3-012 |
| New DSCH-RNTI                                                      | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8, A9,<br>A10 | Not Present               |         | TCR3-013 |
| New H-RNTI                                                         | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8, A9,<br>A10 | Not Present               | Rel-5   | TCR3-014 |
| RRC State indicator                                                | A1, A2, A3,<br>A4                                | CELL_DCH                  |         | TCR3-015 |
| RRC State indicator                                                | A5, A6                                           | CELL_FACH                 |         | TCR3-016 |
| RRC State indicator                                                | A7, A8                                           | URA_PCH                   |         | TCR3-017 |
| RRC State indicator                                                | A9, A10                                          | CELL_PCH                  |         | TCR3-018 |
| UTRAN DRX cycle length coefficient                                 | A1, A2, A3,<br>A4,A5,A6                          | Not Present               |         | TCR3-019 |
| UTRAN DRX cycle length coefficient                                 | A7, A8, A9,<br>A10                               | 3                         |         | TCR3-020 |
| CN information info                                                |                                                  | Not Present               |         | TCR3-021 |
| URA identity                                                       |                                                  | Not Present               |         | TCR3-022 |
| Downlink counter synchronisation info                              |                                                  | Not Present               |         | TCR3-023 |
| UL Transport channel information common for all transport channels | A1, A2, A5,<br>A6                                | Not Present               |         | TCR3-024 |

| Information Element                                                | Condition      | Value/remark                                                                                                      | Version | Index    |
|--------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------|---------|----------|
| UL Transport channel information common for all transport channels | A3, A4         |                                                                                                                   |         | TCR3-025 |
| - PRACH TFCS                                                       |                | Not Present                                                                                                       |         | TCR3-026 |
| - CHOICE mode                                                      |                | TDD                                                                                                               |         | TCR3-027 |
| - Individual UL CCTrCH information                                 |                |                                                                                                                   |         | TCR3-028 |
| - UL TFCS Identity                                                 |                |                                                                                                                   |         | TCR3-029 |
| - TFCS ID                                                          |                | 1                                                                                                                 |         | TCR3-030 |
| - Shared Channel Indicator                                         |                | FALSE                                                                                                             |         | TCR3-031 |
| - UL TFCS                                                          |                |                                                                                                                   |         | TCR3-032 |
| - CHOICE <i>TFCS signalling</i>                                    |                | Normal                                                                                                            |         | TCR3-033 |
| - TFCI Field 1 Information                                         |                |                                                                                                                   |         | TCR3-034 |
| - CHOICE <i>TFCS representation</i>                                |                | Complete reconfiguration                                                                                          |         | TCR3-035 |
| - TFCS complete reconfiguration information                        |                |                                                                                                                   |         | TCR3-036 |
| - CHOICE <i>CTFC Size</i>                                          |                | Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.10.3.4 Parameter Set. |         | TCR3-037 |
| - CTFC information                                                 |                | This IE is repeated for TFC numbers and reference to TS34.108 clause 6. 10.3.4 Parameter Set                      |         | TCR3-038 |
| - CTFC                                                             |                | Reference to TS34.108 clause 6. 10.3.4 Parameter Set                                                              |         | TCR3-039 |
| - Power offset information                                         |                |                                                                                                                   |         | TCR3-040 |
| - CHOICE Gain Factors                                              |                | Computed Gain Factors(The last TFC is set to Signalled Gain Factors)                                              |         | TCR3-041 |
| - Reference TFC ID                                                 |                | 0 Integer(0.. 3)                                                                                                  |         | TCR3-042 |
| - CHOICE Gain Factors                                              |                | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)                     |         | TCR3-043 |
| - CHOICE mode                                                      |                | TDD                                                                                                               |         | TCR3-044 |
| - Gain Factor $\beta_k$                                            |                | 15                                                                                                                |         | TCR3-045 |
| - Reference TFC ID                                                 |                | 0 Integer(0.. 3)                                                                                                  |         | TCR3-046 |
| - CHOICE mode                                                      |                | TDD                                                                                                               |         | TCR3-047 |
| - TFC subset                                                       |                |                                                                                                                   |         | TCR3-048 |
| - CHOICE Subset representation                                     |                | Full transport format combination set                                                                             |         | TCR3-049 |
| - TFC subset list                                                  |                | Not Present                                                                                                       |         | TCR3-050 |
| Added or Reconfigured TrCH information list                        | A1, A2, A5, A6 | Not Present                                                                                                       |         | TCR3-051 |

| Information Element                         | Condition  | Value/remark                                    | Version | Index    |
|---------------------------------------------|------------|-------------------------------------------------|---------|----------|
| Added or Reconfigured TrCH information list | A4         | 2 TrCHs(DCH for DCCH and DCH for DTCH)          |         | TCR3-052 |
| - Added or Reconfigured UL TrCH information |            |                                                 |         | TCR3-053 |
| - Uplink transport channel type             |            | DCH                                             |         | TCR3-054 |
| - UL Transport channel identity             |            | 5                                               |         | TCR3-055 |
| - TFS                                       |            |                                                 |         | TCR3-056 |
| - CHOICE Transport channel type             |            | Dedicated transport channels                    |         | TCR3-057 |
| - Dynamic Transport format information      |            |                                                 |         | TCR3-058 |
| - RLC Size                                  |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-059 |
| - Number of TBs and TTI List                |            | This IE is repeated for maxTF number            |         | TCR3-060 |
| - Transmission Time Interval                |            | Not Present                                     |         | TCR3-061 |
| - Number of Transport blocks                |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-062 |
| - CHOICE Logical Channel list               |            | All                                             |         | TCR3-063 |
| - Semi-static Transport Format information  |            |                                                 |         | TCR3-064 |
| - Transmission time interval                |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-065 |
| - Type of channel coding                    |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-066 |
| - Coding Rate                               |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-067 |
| - Rate matching attribute                   |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-068 |
| - CRC size                                  |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-069 |
| - Uplink transport channel type             |            | DCH                                             |         | TCR3-070 |
| - UL Transport channel identity             |            | 1                                               |         | TCR3-071 |
| - TFS                                       |            |                                                 |         | TCR3-072 |
| - CHOICE Transport channel type             |            | Dedicated transport channels                    |         | TCR3-073 |
| - Dynamic Transport format information      |            |                                                 |         | TCR3-074 |
| - RLC Size                                  |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-075 |
| - Number of TBs and TTI List                |            | This IE is repeated for maxTF number            |         | TCR3-076 |
| - Transmission Time Interval                |            | Not Present                                     |         | TCR3-077 |
| - Number of Transport blocks                |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-078 |
| - CHOICE Logical Channel list               |            | All                                             |         | TCR3-079 |
| - Semi-static Transport Format information  |            |                                                 |         | TCR3-080 |
| - Transmission time interval                |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-081 |
| - Type of channel coding                    |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-082 |
| - Coding Rate                               |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-083 |
| - Rate matching attribute                   |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-084 |
| - CRC size                                  |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-085 |
| Added or Reconfigured TrCH information list | A3         | (DCH for DTCH)                                  |         | TCR3-086 |
| - Added or Reconfigured UL TrCH information |            |                                                 |         | TCR3-087 |
| - Uplink transport channel type             |            | DCH                                             |         | TCR3-088 |
| - UL Transport channel identity             |            | 1                                               |         | TCR3-089 |
| - TFS                                       |            |                                                 |         | TCR3-090 |
| - CHOICE Transport channel type             |            | Dedicated transport channels                    |         | TCR3-091 |
| - Dynamic Transport format information      |            |                                                 |         | TCR3-092 |
| - RLC Size                                  |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-093 |
| - Number of TBs and TTI List                | 1 to maxTF | (This IE is repeated for TF number.)            |         | TCR3-094 |
| - Transmission Time Interval                |            | Not Present                                     |         | TCR3-095 |
| - Number of Transport blocks                |            | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-096 |
| - CHOICE Logical Channel list               |            | All                                             |         | TCR3-097 |
| - Semi-static Transport Format information  |            |                                                 |         | TCR3-098 |

| Information Element                                                | Condition             | Value/remark                                                                                                                                                                                             | Version | Index    |
|--------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| - Transmission time interval                                       |                       | Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                          |         | TCR3-099 |
| - Type of channel coding                                           |                       | Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                          |         | TCR3-100 |
| - Coding Rate                                                      |                       | Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                          |         | TCR3-101 |
| - Rate matching attribute                                          |                       | Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                          |         | TCR3-102 |
| - CRC size                                                         |                       | Reference to TS34.108 clause 6.10 Parameter Set                                                                                                                                                          |         | TCR3-103 |
| CHOICE <i>mode</i>                                                 | A1,A2,A3,<br>A4,A5,A6 | TDD                                                                                                                                                                                                      |         | TCR3-104 |
| Downlink HS-PDSCH Information                                      |                       |                                                                                                                                                                                                          | Rel-5   | TCR3-105 |
| DL Transport channel information common for all transport channels | A1, A2,<br>A5,A6      | Not Present                                                                                                                                                                                              |         | TCR3-106 |
| DL Transport channel information common for all transport channels | A3,A4                 |                                                                                                                                                                                                          |         | TCR3-107 |
| - SCCPCH TFCS                                                      |                       | Not Present                                                                                                                                                                                              |         | TCR3-108 |
| - CHOICE <i>mode</i>                                               |                       | TDD                                                                                                                                                                                                      |         | TCR3-109 |
| - Individual DL CCTrCH information                                 |                       |                                                                                                                                                                                                          |         | TCR3-110 |
| - DL TFCS Identity                                                 |                       |                                                                                                                                                                                                          |         | TCR3-111 |
| - TFCS ID                                                          |                       | 2                                                                                                                                                                                                        |         | TCR3-112 |
| - Shared Channel Indicator                                         |                       | FALSE                                                                                                                                                                                                    |         | TCR3-113 |
| - CHOICE DL parameters                                             |                       | Independent                                                                                                                                                                                              |         | TCR3-114 |
| - DL TFCS                                                          |                       |                                                                                                                                                                                                          |         | TCR3-115 |
| - CHOICE TFCI Signalling                                           |                       | Normal                                                                                                                                                                                                   |         | TCR3-116 |
| - TFCI Field 1 Information                                         |                       |                                                                                                                                                                                                          |         | TCR3-117 |
| - CHOICE TFCS representation                                       |                       | Complete reconfiguration                                                                                                                                                                                 |         | TCR3-118 |
| - TFCS complete reconfiguration information                        |                       |                                                                                                                                                                                                          |         | TCR3-119 |
| - CHOICE CTFC Size                                                 |                       |                                                                                                                                                                                                          |         | TCR3-120 |
| - CTFC information                                                 |                       | Number of bits used must be enough to cover all combinations of CTFC from clause TS34.108 clause 6. 10.3.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6. 10.3.4 |         | TCR3-121 |
| - CTFC                                                             |                       | Reference to TS34.108 clause 6. 10.3.4 Parameter Set                                                                                                                                                     |         | TCR3-122 |
| - Power offset information                                         |                       | Not Present                                                                                                                                                                                              |         | TCR3-123 |
| Added or Reconfigured TrCH information list                        | A1, A2, A5,<br>A6     | Not Present                                                                                                                                                                                              |         | TCR3-124 |

| Information Element                         | Condition   | Value/remark                                    | Version | Index    |
|---------------------------------------------|-------------|-------------------------------------------------|---------|----------|
| Added or Reconfigured TrCH information list | A4          | 2 TrCHs(DCH for DCCH and DCH for DTCH)          |         | TCR3-125 |
| - Added or Reconfigured DL TrCH information |             |                                                 |         | TCR3-126 |
| - Downlink transport channel type           |             | DCH                                             |         | TCR3-127 |
| - DL Transport channel identity             |             | 10                                              |         | TCR3-128 |
| - CHOICE DL parameters                      |             | Same as UL                                      |         | TCR3-129 |
| - Uplink transport channel type             |             | DCH                                             |         | TCR3-130 |
| - UL TrCH identity                          |             | 5                                               |         | TCR3-131 |
| - DCH quality target                        |             |                                                 |         | TCR3-132 |
| - BLER Quality value                        |             | -20 (-2.0)                                      |         | TCR3-133 |
| - Transparent mode signalling info          |             | Not Present                                     |         | TCR3-134 |
| - Downlink transport channel type           |             | DCH                                             |         | TCR3-135 |
| - DL Transport channel identity             |             | 6                                               |         | TCR3-136 |
| - CHOICE DL parameters                      |             | Explicit                                        |         | TCR3-137 |
| - TFS                                       |             |                                                 |         | TCR3-138 |
| - CHOICE Transport channel type             |             | Dedicated transport channels                    |         | TCR3-139 |
| - Dynamic transport format information      |             |                                                 |         | TCR3-140 |
| - RLC Size                                  |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-141 |
| - Number of TBs and TTI List                |             | (This IE is repeated for TF number.)            |         | TCR3-142 |
| - Transmission Time Interval                |             | Not Present                                     |         | TCR3-143 |
| - Number of Transport blocks                |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-144 |
| - Semi-static Transport Format information  |             |                                                 |         | TCR3-145 |
| - Transmission time interval                |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-146 |
| - Type of channel coding                    |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-147 |
| - Coding Rate                               |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-148 |
| - Rate matching attribute                   |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-149 |
| - CRC size                                  |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-150 |
| - DCH quality target                        |             |                                                 |         | TCR3-151 |
| - BLER Quality value                        |             | -20 (-2.0)                                      |         | TCR3-152 |
| Added or Reconfigured TrCH information list | A3          |                                                 |         | TCR3-153 |
| - Added or Reconfigured DL TrCH information |             |                                                 |         | TCR3-154 |
| - Downlink transport channel type           |             | DCH                                             |         | TCR3-155 |
| - DL Transport channel identity             |             | 6                                               |         | TCR3-156 |
| - CHOICE DL parameters                      |             | Explicit                                        |         | TCR3-157 |
| - TFS                                       |             |                                                 |         | TCR3-158 |
| - CHOICE Transport channel type             |             | Dedicated transport channels                    |         | TCR3-159 |
| - Dynamic transport format information      |             |                                                 |         | TCR3-160 |
| - RLC Size                                  |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-161 |
| - Number of TBs and TTI List                |             | (This IE is repeated for TF number.)            |         | TCR3-162 |
| - Transmission Time Interval                |             | Not Present                                     |         | TCR3-163 |
| - Number of Transport blocks                |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-164 |
| - Semi-static Transport Format information  |             |                                                 |         | TCR3-165 |
| - Transmission time interval                |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-166 |
| - Type of channel coding                    |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-167 |
| - Coding Rate                               |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-168 |
| - Rate matching attribute                   |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-169 |
| - CRC size                                  |             | Reference to TS34.108 clause 6.10 Parameter Set |         | TCR3-170 |
| - DCH quality target                        |             |                                                 |         | TCR3-171 |
| - BLER Quality value                        |             | -20 (-2.0)                                      |         | TCR3-172 |
| - Transparent mode signalling info          |             | Not Present                                     |         | TCR3-173 |
| Frequency info                              | A1, A2, A3, |                                                 |         | TCR3-174 |

| Information Element                     | Condition               | Value/remark                                                                                  | Version | Index                |
|-----------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------|---------|----------------------|
| - Choice mode<br>- UARFCN (Nt)          | A4, A5                  | TDD<br>Reference to clause 5.1 Test frequencies                                               |         | TCR3-175<br>TCR3-176 |
| Frequency info                          | A6, A7, A8, A9, A10     | Not Present                                                                                   |         | TCR3-177             |
| Maximum allowed UL TX power             |                         | 33dBm                                                                                         |         | TCR3-178             |
| CHOICE channel requirement              | A5, A6, A7, A8, A9, A10 | Not Present                                                                                   |         | TCR3-179             |
| CHOICE channel requirement              | A1, A2, A3, A4          | Uplink DPCH info                                                                              |         | TCR3-180             |
| - Uplink DPCH power control info        |                         |                                                                                               |         |                      |
| - CHOICE mode                           |                         | TDD                                                                                           |         | TCR3-181             |
| - CHOICE TDD option                     |                         | 3.84 Mcps TDD                                                                                 | Rel-4   | TCR3-182             |
| - UL target SIR                         |                         | 6                                                                                             |         | TCR3-183             |
| - CHOICE UL OL PC info                  |                         | Individually Signalled                                                                        |         | TCR3-184             |
| - CHOICE TDD option                     |                         | 3.84 Mcps TDD                                                                                 | Rel-4   | TCR3-185             |
| - Individual timeslot interference info |                         | Reference to TS34.108 clause 6.10.3 Parameter Set (for number of TS's)                        |         | TCR3-186<br>TCR3-187 |
| - Individual timeslot interference      |                         |                                                                                               |         | TCR3-188             |
| - CHOICE TDD option                     |                         | 3.84 Mcps TDD                                                                                 | Rel-4   | TCR3-189             |
| - Timeslot number                       |                         | As required by, Reference to TS34.108 clause 6.10.3 Parameter Set                             |         | TCR3-190             |
| - TDD UL interference                   |                         | As required by, Reference to TS34.108 clause 6.10.3 Parameter Set (if not specified - 60 dBm) |         | TCR3-191             |
| - Primary CCPCH Tx Power                |                         | 18 Integer(6..43) (-70 dBm Received if pathloss not specified)                                |         | TCR3-192             |
| - CHOICE mode                           |                         | TDD                                                                                           |         | TCR3-193             |
| - Uplink Timing Advance Control         |                         | Enabled                                                                                       |         | TCR3-194             |
| - CHOICE Timing Advance                 |                         | 3.84 Mcps TDD                                                                                 | Rel-4   | TCR3-195             |
| - CHOICE TDD option                     |                         |                                                                                               |         | TCR3-196             |
| - UL CCTrCH List                        |                         |                                                                                               |         | TCR3-197             |
| - TFCS ID                               |                         | 1                                                                                             |         | TCR3-198             |
| - UL Target SIR                         |                         | Real (-11 .. 20 by step of 0.5dB)<br>Reference to TS34.108 Parameter set.                     |         | TCR3-199             |
| - Time info                             |                         |                                                                                               |         | TCR3-200             |
| - Activation time                       |                         | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                              |         | TCR3-201             |
| - Duration                              |                         | Infinite                                                                                      |         | TCR3-202             |
| - Common timeslot info                  |                         |                                                                                               |         | TCR3-203             |
| - 2 <sup>nd</sup> interleaving mode     |                         | Default value is "Frame"                                                                      |         | TCR3-204             |
| - TFCI coding                           |                         | Reference to TS34.108 clause 6 Parameter set                                                  |         | TCR3-205             |
| - Puncturing limit                      |                         | Reference to TS34.108 clause 6 Parameter set                                                  |         | TCR3-206             |
| - Repetition period                     |                         | 1                                                                                             |         | TCR3-207             |
| - Repetition length                     |                         | null                                                                                          |         | TCR3-208             |
| - Uplink DPCH timeslots and code        |                         |                                                                                               |         | TCR3-209             |
| - Dynamic SF usage                      |                         | FALSE                                                                                         |         | TCR3-210             |
| - First individual timeslot info        |                         |                                                                                               |         | TCR3-211             |
| - Timeslot number                       |                         |                                                                                               |         | TCR3-212             |
| - CHOICE TDD option                     |                         | 3.84 Mcps TDD                                                                                 | Rel-4   | TCR3-213             |
| - Timeslot number                       |                         | 1 OR 2 OR 3                                                                                   |         | TCR3-214             |
| - TFCI existence                        |                         | TRUE                                                                                          |         | TCR3-215             |
| - Midamble shift and burst type         |                         |                                                                                               |         | TCR3-216             |
| - CHOICE TDD option                     |                         | 3.84 Mcps TTD                                                                                 | Rel-4   | TCR3-217             |
| - Midamble allocation mode              |                         | Default midamble                                                                              |         | TCR3-218             |
| - Midamble configuration                |                         | 16                                                                                            |         | TCR3-219             |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                       | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Value/remark | Version | Index |
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| - Midamble Shift<br>- CHOICE TDD option<br>- First timeslot Code List<br><br>- channelisation codes<br><br>- CHOICE more timeslots<br>- UL CCTrCH List to Remove<br>CHOICE Mode<br><br>- Downlink PDSCH information<br>Downlink HS-PDSCH Information<br><br>Downlink information common for all radio links<br>- Downlink DPCH info common for all RL<br>- Timing indication<br>- CFN-targetSFN frame offset<br>- Downlink DPCH power control information | 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| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Condition | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                     | Version                                                                        | Index                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Time info<br>- Activation time<br>- Duration<br>- Common timeslot info<br>- 2nd interleaving mode                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Now<br>Infinite<br><br>Default value is "Frame"                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                | TCR3-270<br>TCR3-271<br>TCR3-272<br>TCR3-273<br>TCR3-274                                                                                                                                                                                     |
| - TFCl coding<br><br>- Puncturing limit<br><br>- Repetition period<br>- Repetition length<br>- Downlink DPCH timeslots and codes<br>- First individual timeslot info<br>- Timeslot number<br>- CHOICE TDD option                                                                                                                                                                                                                                                                                                                                     |           | Reference to TS34.108 clause 6<br>Parameter set<br>Reference to TS34.108 clause 6<br>Parameter set<br>1<br>NULL<br><br>3.84 Mcps TDD                                                                                                                                                                                                                                                                                                             | <br><br><br><br><br><br>Rel-4                                                  | TCR3-275<br><br>TCR3-276<br><br>TCR3-277<br>TCR3-278<br>TCR3-279<br>TCR3-280<br>TCR3-281<br>TCR3-282                                                                                                                                         |
| - Timeslot number<br>- TFCl existence<br>- Midamble shift and burst type<br>- CHOICE TDD option<br>- CHOICE <i>Burst Type</i><br>- Midamble allocation mode<br>- Midamble configuration<br>- Midamble Shift<br>- CHOICE TDD option<br>- First timeslot channelisation codes<br><br><br>- CHOICE codes representation<br>- Channelisation codes bitmap<br><br>- CHOICE more timeslots<br>- UL CCTrCH TPC List<br><br>- UL TPC TFCS Identity<br>- TFCS ID<br>- Shared Channel Indicator<br>- DL CCTrCH List to Remove<br>- SCCPCH Information for FACH | A4        | 4 OR 5 OR 6<br>TRUE<br><br>3.84 Mcps TDD<br>Type 1<br>Default midamble<br>16<br>Not Present<br>3.84 Mcps TDD<br>Repeated (1,2) for each<br>channelisation code assigned in<br>the slot to meet the needs of<br>TS34.108 clause 6 Parameter Set.<br>Bitmap<br>Reference to TS34.108 clause<br>6.10 Parameter Set<br>No more timeslots<br>Default (is previous list or all<br>defined UL CCTrCHs.)<br><br>1<br>FALSE<br>Not present<br>Not Present | Rel-4<br><br><br>Rel-4<br><br><br><br><br><br><br><br>R99 and<br>Rel-4<br>only | TCR3-283<br>TCR3-284<br>TCR3-285<br>TCR3-286<br>TCR3-287<br>TCR3-288<br>TCR3-289<br>TCR3-290<br>TCR3-291<br>TCR3-292<br><br>TCR3-293<br>TCR3-294<br><br>TCR3-295<br>TCR3-296<br><br>TCR3-297<br>TCR3-298<br>TCR3-299<br>TCR3-300<br>TCR3-301 |
| Downlink information per radio link list<br>- Downlink information for each radio link<br>- Choice mode<br>- Primary CCPCH info<br>- Choice mode<br>- Choice TDD Option<br>- CHOICE SyncCase<br>- Timeslot<br><br>- Cell parameters ID<br><br><br>- SCTD indicator<br>- Downlink DPCH info for each RL<br>- CHOICE mode<br>- DL CCTrCh List                                                                                                                                                                                                          | A4        | TDD<br><br>TDD<br>3.84 Mcps TDD<br>Sync Case 1<br>Reference clause 6.1.4 Default<br>settings for cell 1<br>Ref. to the Default setting in<br>TS34.108 clause 6.1 (TDD)<br>Integer(0..127)<br>FALSE<br><br>TDD                                                                                                                                                                                                                                    | Rel-4                                                                          | TCR3-302<br>TCR3-303<br>TCR3-304<br>TCR3-305<br>TCR3-306<br>TCR3-307<br>TCR3-308<br>TCR3-309<br><br>TCR3-310<br><br>TCR3-311<br>TCR3-312<br>TCR3-313<br>TCR3-314                                                                             |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Condition           | Value/remark                                                                                                           | Version            | Index    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| <ul style="list-style-type: none"> <li>- TFCS ID</li> <li>- Time info</li> <li>- Activation time</li> <li>- Duration</li> <li>- Common timeslot info</li> <li>- 2nd interleaving mode</li> <li>- TFCI coding</li> <li>- Puncturing limit</li> <li>- Repetition period</li> <li>- Repetition length</li> <li>- Downlink DPCH timeslots and codes</li> <li>- First individual timeslot info</li> <li>- Timeslot number</li> <li>- CHOICE TDD option</li> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble shift and burst type</li> <li>- CHOICE TDD option</li> <li>- CHOICE <i>Burst Type</i></li> <li>- Midamble allocation mode</li> <li>- Midamble configuration</li> <li>- Midamble Shift</li> <li>- CHOICE TDD option</li> <li>- First timeslot channelisation codes</li> <li>- CHOICE codes representation</li> <li>- Channelisation codes bitmap</li> <li>- CHOICE more timeslots</li> <li>- UL CCTrCH TPC List</li> <li>- UL TPC TFCS Identity</li> <li>- TFCS ID</li> <li>- Shared Channel Indicator</li> <li>- DL CCTrCH List to Remove</li> <li>- SCCPCH Information for FACH</li> </ul> | A5                  | 2 Integer(1.8)                                                                                                         | Rel-4              | TCR3-315 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Now                                                                                                                    |                    | TCR3-316 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Infinite                                                                                                               |                    | TCR3-317 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Default value is "Frame"                                                                                               |                    | TCR3-318 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Reference to TS34.108 clause 6                                                                                         |                    | TCR3-319 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Parameter set                                                                                                          |                    | TCR3-320 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Reference to TS34.108 clause 6                                                                                         |                    | TCR3-321 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Parameter set                                                                                                          |                    | TCR3-322 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | 1                                                                                                                      |                    | TCR3-323 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | NULL                                                                                                                   |                    | TCR3-324 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                                                                                                                        |                    | TCR3-325 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                                                                                                                        |                    | TCR3-326 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                                                                                                                        |                    | TCR3-327 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | 3.84 Mcps TDD                                                                                                          |                    | TCR3-328 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | 4 OR 5 OR 6                                                                                                            |                    | TCR3-329 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | TRUE                                                                                                                   |                    | TCR3-330 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                                                                                                                        |                    | TCR3-331 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | 3.84 Mcps TDD                                                                                                          | Rel-4              | TCR3-332 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Type 1                                                                                                                 |                    | TCR3-333 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Default midamble                                                                                                       |                    | TCR3-334 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | 16                                                                                                                     | Rel-4              | TCR3-335 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Not Present                                                                                                            |                    | TCR3-336 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | 3.84 Mcps TDD                                                                                                          |                    | TCR3-337 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. | Rel-4              | TCR3-338 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Bitmap                                                                                                                 |                    | TCR3-339 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Reference to TS34.108 clause 6.10 Parameter Set                                                                        |                    | TCR3-340 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | No more timeslots                                                                                                      | Rel-4              | TCR3-341 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Default (is previous list or all defined UL CCTrCHs.)                                                                  |                    | TCR3-342 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                                                                                                                        |                    | TCR3-343 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | 1                                                                                                                      | R99 and Rel-4 only | TCR3-344 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | FALSE                                                                                                                  |                    | TCR3-345 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Not present                                                                                                            |                    | TCR3-346 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Not Present                                                                                                            | R99 and Rel-4 only | TCR3-347 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                                                                                                                        |                    | TCR3-348 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                                                                                                                        |                    | TCR3-349 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | TDD                                                                                                                    | Rel-4              | TCR3-350 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | TDD                                                                                                                    |                    | TCR3-351 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | 3.84 Mcps TDD                                                                                                          |                    | TCR3-352 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Sync Case 1                                                                                                            | Rel-4              | TCR3-353 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Reference clause 6.1.4 Default settings for cell 1                                                                     |                    | TCR3-354 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Ref. to the Default setting in TS34.108 clause 6.1 (TDD)                                                               |                    | TCR3-355 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Integer(0..127)                                                                                                        | R99 and Rel-4 only | TCR3-356 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | FALSE                                                                                                                  |                    | TCR3-357 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Not Present                                                                                                            |                    | TCR3-358 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | Not Present                                                                                                            | R99 and Rel-4 only | TCR3-359 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                                                                                                                        |                    | TCR3-360 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |                                                                                                                        |                    | TCR3-360 |
| Downlink information per radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A6, A7, A8, A9, A10 | Not Present                                                                                                            |                    | TCR3-360 |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |
| A7        | This IE need for "Packet to URA_PCH from CELL_FACH in PS"   |
| A8        | This IE need for "Packet to URA_PCH from CELL_DCH in PS"    |
| A9        | This IE need for "Packet to CELL_PCH from CELL_FACH in PS"  |
| A10       | This IE need for "Packet to CELL_PCH from CELL_DCH in PS"   |

Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM (1.28 Mcps TDD)

| Information Element | Condition | Value/remark | Version | Index |
|---------------------|-----------|--------------|---------|-------|
|---------------------|-----------|--------------|---------|-------|

| Information Element                                              | Condition                               | Value/remark                                                                                                                                                       | Version | Index     |
|------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|
| Message Type                                                     | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 |                                                                                                                                                                    |         | TCR1-001  |
| RRC transaction identifier                                       |                                         | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | TCR1-002  |
| Integrity check info                                             |                                         |                                                                                                                                                                    |         | TCR1-003  |
| - message authentication code                                    |                                         | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | TCR1-004  |
| - RRC message sequence number                                    |                                         | SS provides the value of this IE, from its internal counter.                                                                                                       |         | TCR1-005  |
| Integrity protection mode info                                   |                                         | Not Present                                                                                                                                                        |         | TCR1-006  |
| Ciphering mode info                                              |                                         | Not Present                                                                                                                                                        |         | TCR1-007  |
| Activation time                                                  | A1, A2, A3                              | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |         | TCR1-008  |
| Activation time                                                  | A4, A5, A6, A7, A8, A9, A10             | Not Present                                                                                                                                                        |         | TCR1-009  |
| Delay restriction flag                                           |                                         | Not Present                                                                                                                                                        | Rel-6   | TCR1-010  |
| New U-RNTI                                                       |                                         | Not Present                                                                                                                                                        |         | TCR1-011  |
| New C-RNTI                                                       | A1, A2, A3, A4, A7, A8, A9, A10         | Not Present                                                                                                                                                        |         | TCR1-012  |
| New C-RNTI                                                       | A5, A6                                  | '1010 1010 1010 1010'                                                                                                                                              |         | TCR1-013  |
| New DSCH-RNTI                                                    | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                                                                        |         | TCR1-014  |
| New H-RNTI                                                       | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                                                                        | Rel-5   | TCR1-015  |
| CHOICE <i>mode</i>                                               |                                         | TDD                                                                                                                                                                | Rel-7   | TCR1-016  |
| - New E-RNTI                                                     |                                         | Not Present                                                                                                                                                        | Rel-7   | TCR1-017  |
| RRC State indicator                                              | A1, A2, A3, A4                          | CELL_DCH                                                                                                                                                           |         | TCR1-018  |
| RRC State indicator                                              | A5, A6                                  | CELL_FACH                                                                                                                                                          |         | TCR1-019  |
| RRC State indicator                                              | A7, A8                                  | URA_PCH                                                                                                                                                            |         | TCR1-020  |
| RRC State indicator                                              | A9, A10                                 | CELL_PCH                                                                                                                                                           |         | TCR1-021  |
| UTRAN DRX cycle length coefficient                               | A1, A2, A3, A4, A5, A6                  | Not Present                                                                                                                                                        |         | TCR1-022  |
| UTRAN DRX cycle length coefficient                               | A7, A8, A9, A10                         | 3                                                                                                                                                                  |         | TCR1-023  |
| CN information info                                              |                                         | Not Present                                                                                                                                                        |         | TCR1-024  |
| URA identity                                                     |                                         | Not Present                                                                                                                                                        |         | TCR1-025  |
| RNC support for change of UE capability                          |                                         | Not Present                                                                                                                                                        | Rel-7   | TCR1-025a |
| Reconfiguration in response to requested change of UE capability |                                         | Not Present                                                                                                                                                        | Rel-7   | TCR1-025b |
| Downlink counter synchronization info                            |                                         | Not Present                                                                                                                                                        |         | TCR1-026  |
| UL Transport channel information for all transport channels      | A1, A2, A5, A6                          | Not Present                                                                                                                                                        |         | TCR1-027  |
| UL Transport channel information for all transport channels      | A3, A4                                  |                                                                                                                                                                    |         | TCR1-028  |
| - PRACH TFCS                                                     |                                         | Not Present                                                                                                                                                        |         | TCR1-029  |
| - CHOICE <i>mode</i>                                             |                                         | TDD                                                                                                                                                                |         | TCR1-030  |
| - Individual UL CCTrCH information                               |                                         |                                                                                                                                                                    |         | TCR1-031  |
| - UL TFCS Identity                                               |                                         |                                                                                                                                                                    |         | TCR1-032  |
| - TFCS ID                                                        |                                         | 1                                                                                                                                                                  |         | TCR1-033  |
| - Shared Channel Indicator                                       |                                         | FALSE                                                                                                                                                              |         | TCR1-034  |
| - UL TFCS                                                        |                                         |                                                                                                                                                                    |         | TCR1-035  |
| - CHOICE <i>TFCI signalling</i>                                  |                                         | Normal                                                                                                                                                             |         | TCR1-036  |
| - TFCI Field 1 Information                                       |                                         |                                                                                                                                                                    |         | TCR1-037  |
| - CHOICE <i>TFCS representation</i>                              |                                         | Complete reconfiguration                                                                                                                                           |         | TCR1-038  |
| - TFCS complete reconfiguration information                      |                                         |                                                                                                                                                                    |         | TCR1-039  |
| - CHOICE <i>CTFC Size</i>                                        |                                         | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4                                                                          |         | TCR1-040  |
| - CTFC information                                               |                                         | Parameter Set.<br>This IE is repeated for TFC numbers and reference to clause                                                                                      |         | TCR1-041  |

| Information Element                         | Condition      | Value/remark                                                                                        | Version | Index    |
|---------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------|---------|----------|
| - CTFC                                      |                | 6.11.5.4 Parameter Set<br>Reference to clause 6.11.5.4<br>Parameter Set                             |         | TCR1-042 |
| - Power offset information                  |                |                                                                                                     |         | TCR1-043 |
| - CHOICE Gain Factors                       |                | Computed Gain Factors(The last<br>TFC is set to Signalled Gain<br>Factors)                          |         | TCR1-044 |
| - Reference TFC ID                          |                | 0 Integer(0.. 3)                                                                                    |         | TCR1-045 |
| - CHOICE Gain Factors                       |                | Signalled Gain Factors(Not Present<br>if the CHOICE Gain Factors is set<br>to ComputedGain Factors) |         | TCR1-046 |
| - CHOICE mode                               |                | TDD                                                                                                 |         | TCR1-047 |
| - Gain Factor $\beta_d$                     |                | 15                                                                                                  |         | TCR1-048 |
| - Reference TFC ID                          |                | 0 Integer(0.. 3)                                                                                    |         | TCR1-049 |
| - CHOICE mode                               |                | TDD                                                                                                 |         | TCR1-050 |
| - TFC subset                                |                |                                                                                                     |         | TCR1-051 |
| - CHOICE Subset representation              |                | Full transport format combination<br>set                                                            |         | TCR1-052 |
| - TFC subset list                           |                | Not Present                                                                                         |         | TCR1-053 |
| Added or Reconfigured TrCH information list | A1, A2, A5, A6 | Not Present                                                                                         |         | TCR1-054 |
| Added or Reconfigured TrCH information list | A4             | 2 TrCHs(DCH for DCCH and DCH<br>for DTCH)                                                           |         | TCR1-055 |
| - Added or Reconfigured UL TrCH information |                |                                                                                                     |         | TCR1-056 |
| - Uplink transport channel type             |                | DCH                                                                                                 |         | TCR1-057 |
| - UL Transport channel identity             |                | 5                                                                                                   |         | TCR1-058 |
| - TFS                                       |                |                                                                                                     |         | TCR1-059 |
| - CHOICE Transport channel type             |                | Dedicated transport channels                                                                        |         | TCR1-060 |
| - Dynamic Transport format information      |                |                                                                                                     |         | TCR1-061 |
| - RLC Size                                  |                | Reference to clause 6.11<br>Parameter Set                                                           |         | TCR1-062 |
| - Number of TBs and TTI List                |                | This IE is repeated for maxTF<br>number                                                             |         | TCR1-063 |
| - Transmission Time Interval                |                | Not Present                                                                                         |         | TCR1-064 |
| - Number of Transport blocks                |                | Reference to clause 6.11<br>Parameter Set                                                           |         | TCR1-065 |
| - CHOICE Logical channel list               |                | All                                                                                                 |         | TCR1-066 |
| - Semi-static Transport Format information  |                |                                                                                                     |         | TCR1-067 |
| - Transmission time interval                |                | Reference to clause 6.11<br>Parameter Set                                                           |         | TCR1-068 |
| - Type of channel coding                    |                | Reference to clause 6.11<br>Parameter Set                                                           |         | TCR1-069 |
| - Coding Rate                               |                | Reference to clause 6.11<br>Parameter Set                                                           |         | TCR1-070 |
| - Rate matching attribute                   |                | Reference to clause 6.11<br>Parameter Set                                                           |         | TCR1-071 |
| - CRC size                                  |                | Reference to clause 6.11<br>Parameter Set                                                           |         | TCR1-072 |
| - Uplink transport channel type             |                | DCH                                                                                                 |         | TCR1-073 |
| - UL Transport channel identity             |                | 1                                                                                                   |         | TCR1-074 |
| - TFS                                       |                |                                                                                                     |         | TCR1-075 |
| - CHOICE Transport channel type             |                | Dedicated transport channels                                                                        |         | TCR1-076 |
| - Dynamic Transport format information      |                |                                                                                                     |         | TCR1-077 |
| - RLC Size                                  |                | Reference to clause 6.11<br>Parameter Set                                                           |         | TCR1-078 |
| - Number of TBs and TTI List                |                | This IE is repeated for maxTF<br>number                                                             |         | TCR1-079 |
| - Transmission Time Interval                |                | Not Present                                                                                         |         | TCR1-080 |
| - Number of Transport blocks                |                | Reference to clause 6.11<br>Parameter Set                                                           |         | TCR1-081 |
| - CHOICE Logical channel list               |                | All                                                                                                 |         | TCR1-082 |
| - Semi-static Transport Format information  |                |                                                                                                     |         | TCR1-083 |
| - Transmission time interval                |                | Reference to clause 6.11<br>Parameter Set                                                           |         | TCR1-084 |
| - Type of channel coding                    |                | Reference to clause 6.11<br>Parameter Set                                                           |         | TCR1-085 |
| - Coding Rate                               |                | Reference to clause 6.11<br>Parameter Set                                                           |         | TCR1-086 |

| Information Element                                                   | Condition            | Value/remark                              | Version | Index    |
|-----------------------------------------------------------------------|----------------------|-------------------------------------------|---------|----------|
| - Rate matching attribute                                             | A3                   | Reference to clause 6.11<br>Parameter Set |         | TCR1-087 |
| - CRC size                                                            |                      | Reference to clause 6.11<br>Parameter Set |         | TCR1-088 |
| Added or Reconfigured TrCH information list                           |                      | (DCH for DTCH)                            |         | TCR1-089 |
| - Added or Reconfigured UL TrCH information                           |                      |                                           |         | TCR1-090 |
| - Uplink transport channel type                                       |                      | DCH                                       |         | TCR1-091 |
| - UL Transport channel identity                                       |                      | 1                                         |         | TCR1-092 |
| - TFS                                                                 |                      |                                           |         | TCR1-093 |
| - CHOICE Transport channel type                                       |                      | Dedicated transport channels              |         | TCR1-094 |
| - Dynamic Transport format information                                |                      |                                           |         | TCR1-095 |
| - RLC Size                                                            |                      | Reference to clause 6.11<br>Parameter Set |         | TCR1-096 |
| - Number of TBs and TTI List                                          | 1 to maxTF           | (This IE is repeated for TF<br>number.)   |         | TCR1-097 |
| - Transmission Time Interval                                          |                      | Not Present                               |         | TCR1-098 |
| - Number of Transport blocks                                          |                      | Reference to clause 6.11<br>Parameter Set |         | TCR1-099 |
| - CHOICE Logical channel list                                         |                      | All                                       |         | TCR1-100 |
| - Semi-static Transport Format information                            |                      |                                           |         | TCR1-101 |
| - Transmission time interval                                          |                      | Reference to clause 6.11<br>Parameter Set |         | TCR1-102 |
| - Type of channel coding                                              |                      | Reference to clause 6.11<br>Parameter Set |         | TCR1-103 |
| - Coding Rate                                                         |                      | Reference to clause 6.11<br>Parameter Set |         | TCR1-104 |
| - Rate matching attribute                                             |                      | Reference to clause 6.11<br>Parameter Set |         | TCR1-105 |
| - CRC size                                                            |                      | Reference to clause 6.11<br>Parameter Set |         | TCR1-106 |
| CHOICE <i>mode</i>                                                    | A1,A2,A3,A4,A5,A6    | TDD                                       |         | TCR1-107 |
| Downlink HS-PDSCH Information                                         | A1, A2, A5,A6        | Not Present                               | Rel-5   | TCR1-108 |
| DL Transport channel information common for all<br>transport channels |                      |                                           |         | TCR1-109 |
| DL Transport channel information common for all<br>transport channel  | A3,A4                | Not Present<br>TDD                        |         | TCR1-110 |
| - SCCPCH TFCS                                                         |                      |                                           |         | TCR1-111 |
| - CHOICE mode                                                         |                      |                                           |         | TCR1-112 |
| - Individual DL CCTrCH information                                    |                      |                                           |         | TCR1-113 |
| - DL TFCS Identity                                                    |                      |                                           |         | TCR1-114 |
| - TFCS ID                                                             |                      |                                           |         | TCR1-115 |
| - Shared Channel Indicator                                            |                      |                                           |         | TCR1-116 |
| - CHOICE DL parameters                                                |                      |                                           |         | TCR1-117 |
| - DL TFCS                                                             |                      |                                           |         | TCR1-118 |
| - CHOICE TFCI Signalling                                              |                      |                                           |         | TCR1-119 |
| - TFCI Field 1 Information                                            | A1, A2, A5, A6<br>A4 | Normal<br><br>Complete reconfiguration    |         | TCR1-120 |
| - CHOICE TFCS representation                                          |                      |                                           |         | TCR1-121 |
| - TFCS complete reconfiguration                                       |                      |                                           |         | TCR1-122 |
| information                                                           |                      |                                           |         |          |
| - CHOICE CTFC Size                                                    |                      |                                           |         | TCR1-123 |
|                                                                       |                      |                                           |         |          |
| - CTFC information                                                    |                      |                                           |         | TCR1-124 |
|                                                                       |                      |                                           |         |          |
| - CTFC                                                                |                      |                                           |         | TCR1-125 |
| - Power offset information                                            |                      |                                           |         | TCR1-126 |
| Added or Reconfigured TrCH information list                           | A1, A2, A5, A6<br>A4 | Not Present                               |         | TCR1-127 |
| Added or Reconfigured TrCH information list                           |                      | 2 TrCHs(DCH for DCCH and DCH<br>for DTCH) |         | TCR1-128 |
|                                                                       |                      |                                           |         | TCR1-129 |
| - Added or Reconfigured DL TrCH information                           |                      |                                           |         | TCR1-130 |
| - Downlink transport channel type                                     |                      | DCH                                       |         | TCR1-131 |
| - DL Transport channel identity                                       |                      | 10                                        |         | TCR1-132 |
| - CHOICE DL parameters                                                |                      | Same as UL                                |         | TCR1-133 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Condition           | Value/remark                             | Version | Index    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Transparent mode signalling info</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format information</li> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul> |                     | DCH                                      |         | TCR1-133 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | 5                                        |         | TCR1-134 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | -20 (-2.0)                               |         | TCR1-135 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Not Present                              |         | TCR1-136 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | DCH                                      |         | TCR1-137 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | 6                                        |         | TCR1-138 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Explicit                                 |         | TCR1-139 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                                          |         | TCR1-140 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Dedicated transport channels             |         | TCR1-141 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                                          |         | TCR1-142 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Reference to clause 6.11                 |         | TCR1-143 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Parameter Set                            |         | TCR1-144 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | (This IE is repeated for TF number.)     |         | TCR1-145 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Not Present                              |         | TCR1-146 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Reference to clause 6.11                 |         | TCR1-147 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Parameter Set                            |         | TCR1-148 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                                          |         | TCR1-149 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Reference to clause 6.11                 |         | TCR1-150 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Parameter Set                            |         | TCR1-151 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Reference to clause 6.11                 |         | TCR1-152 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Parameter Set                            |         | TCR1-153 |
| <ul style="list-style-type: none"> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                                          |         | TCR1-154 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | -20 (-2.0)                               |         | TCR1-155 |
| Added or Reconfigured TrCH information list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A3                  |                                          |         | TCR1-156 |
| <ul style="list-style-type: none"> <li>- Added or Reconfigured DL TrCH information</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format information</li> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Transparent mode signalling info</li> </ul>                                                                             |                     | DCH                                      |         | TCR1-157 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | 6                                        |         | TCR1-158 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Explicit                                 |         | TCR1-159 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                                          |         | TCR1-160 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Dedicated transport channels             |         | TCR1-161 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                                          |         | TCR1-162 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Reference to clause 6.11                 |         | TCR1-163 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Parameter Set                            |         | TCR1-164 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | (This IE is repeated for TF number.)     |         | TCR1-165 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Not Present                              |         | TCR1-166 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Reference to clause 6.11                 |         | TCR1-167 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Parameter Set                            |         | TCR1-168 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                                          |         | TCR1-169 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Reference to clause 6.11                 |         | TCR1-170 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Parameter Set                            |         | TCR1-171 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Reference to clause 6.11                 |         | TCR1-172 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Parameter Set                            |         | TCR1-173 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Reference to clause 6.11                 |         | TCR1-174 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Parameter Set                            |         | TCR1-175 |
| <ul style="list-style-type: none"> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Transparent mode signalling info</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                          |         | TCR1-176 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | -20 (-2.0)                               |         | TCR1-177 |
| Frequency info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A1, A2, A3, A4, A5  | Not Present                              |         | TCR1-178 |
| <ul style="list-style-type: none"> <li>- Choice mode</li> <li>- UARFCN (Nt)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     | TDD                                      |         | TCR1-179 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     | Reference to clause 5.1 Test frequencies |         | TCR1-180 |
| Frequency info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A6, A7, A8, A9, A10 | Not Present                              |         | TCR1-180 |

| Information Element                 | Condition               | Value/remark                        | Version | Index     |
|-------------------------------------|-------------------------|-------------------------------------|---------|-----------|
| Multi-frequency Info                |                         | Not Present                         | Rel-7   | TCR1-180a |
| Control Channel DRX information     |                         | Not Present                         | Rel-8   | TCR1-181  |
| SPS Information                     |                         | Not Present                         | Rel-8   | TCR1-182  |
| MIMO parameters                     |                         | Not Present                         | Rel-8   | TCR1-183  |
| MU-MIMO info                        |                         | Not Present                         | Rel-10  | TCR1-183a |
| Maximum allowed UL TX power         |                         | 33dBm                               |         | TCR1-184  |
| CHOICE <i>channel requirement</i>   | A5, A6, A7, A8, A9, A10 | Not Present                         |         | TCR1-185  |
| CHOICE <i>channel requirement</i>   | A1, A2, A3, A4          | Uplink DPCH info                    |         | TCR1-186  |
| - Uplink DPCH power control info    |                         |                                     |         | TCR1-187  |
| - CHOICE mode                       |                         | TDD                                 | Rel-4   | TCR1-188  |
| - UL target SIR                     |                         | 25 dB                               | Rel-4   | TCR1-189  |
| - CHOICE UL OL PC info              |                         | Individually Signalled              |         | TCR1-191  |
| - CHOICE TDD option                 |                         | 1.28 Mcps TDD                       |         | TCR1-192  |
| - TPC step size                     |                         | 1                                   |         | TCR1-193  |
| - Primary CCPCH Tx Power            |                         | 20 Integer(6..43)                   |         | TCR1-194  |
| - CHOICE mode                       |                         | TDD                                 |         | TCR1-195  |
| - Uplink Timing Advance Control     |                         |                                     |         | TCR1-196  |
| - CHOICE Timing Advance             |                         | Enabled                             |         | TCR1-197  |
| - CHOICE TDD option                 |                         | 1.28 Mcps TDD                       |         | TCR1-198  |
| - Uplink synchronization parameters |                         |                                     |         | TCR1-199  |
| - Uplink synchronization step size  |                         | 1                                   |         | TCR1-200  |
| - Uplink synchronization frequency  |                         | 1                                   |         | TCR1-201  |
| - Synchronization parameters        |                         |                                     |         | TCR1-202  |
| - SYNC_UL codes bitmap              |                         | 01010101                            |         | TCR1-203  |
| - FPACH info                        |                         |                                     |         | TCR1-204  |
| - Timeslot number                   |                         | 0                                   |         | TCR1-205  |
| - Channelisation code               |                         | 16/15                               |         | TCR1-206  |
| - Midamble Shift and burst type     |                         |                                     |         | TCR1-207  |
| - CHOICE TDD option                 |                         | 1.28 Mcps TDD                       |         | TCR1-208  |
| - Midamble Allocation Mode          |                         | Default midamble                    |         | TCR1-209  |
| - Midamble configuration            |                         | 4 (k=8)                             |         | TCR1-210  |
| - WT                                |                         | 4 Integer(1..4)                     |         | TCR1-211  |
| - PRXUpPCHdes                       |                         | -80 dBm                             |         | TCR1-212  |
| - SYNC_UL procedure                 |                         |                                     |         | TCR1-213  |
| - Max SYNC_UL Transmissions         |                         | 2                                   |         | TCR1-214  |
| - Power Ramp Step                   |                         | 2                                   |         | TCR1-215  |
| - UL CCTrCH List                    |                         |                                     |         | TCR1-216  |
| - TFCS ID                           |                         | 1                                   |         | TCR1-217  |
| - UL Target SIR                     |                         | 25 dB                               |         | TCR1-218  |
| - Time info                         |                         |                                     |         | TCR1-219  |
| - Activation time                   |                         | (256+CFN-(CFN MOD 8 + 8))MOD 256    |         | TCR1-220  |
| - Duration                          |                         | Infinite                            |         | TCR1-221  |
| - Common timeslot info              |                         |                                     |         | TCR1-222  |
| - 2 <sup>nd</sup> interleaving mode |                         | Default value is "Frame"            |         | TCR1-223  |
| - TFCI coding                       |                         | Reference to clause 6 Parameter set |         | TCR1-224  |
| - Puncturing limit                  |                         | Reference to clause 6 Parameter set |         | TCR1-225  |
| - Repetition period                 |                         | 1                                   |         | TCR1-226  |
| - Repetition length                 |                         |                                     |         | TCR1-227  |
| - Uplink DPCH timeslots and code    |                         |                                     |         | TCR1-228  |
| - Dynamic SF usage                  |                         | FALSE                               |         | TCR1-229  |
| - First individual timeslot info    |                         |                                     |         | TCR1-230  |
| - Timeslot number                   |                         |                                     |         | TCR1-231  |
| - CHOICE TDD option                 |                         | 1.28 Mcps TDD                       |         | TCR1-232  |
| - Timeslot number                   |                         | 1 OR 2 OR 3                         |         | TCR1-233  |
| - TFCI existence                    |                         | TRUE                                |         | TCR1-234  |
| - Midamble shift and burst type     |                         |                                     |         | TCR1-235  |
| - CHOICE TDD option                 |                         | 1.28 Mcps TTD                       |         | TCR1-236  |
| - Midamble allocation mode          |                         | Default midamble                    |         | TCR1-237  |
| - Midamble configuration            |                         | 8 (k=16)                            |         | TCR1-238  |
| - Midamble Shift                    |                         | Not Present                         |         | TCR1-239  |
| - CHOICE TDD option                 |                         | 1.28 Mcps TDD                       |         | TCR1-240  |
| - Modulation                        |                         | QPSK                                |         | TCR1-241  |



| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Condition                                                                                                    | Value/remark                                                                                                  | Version         | Index    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------|----------|
| <ul style="list-style-type: none"> <li>- SS-TPC Symbols</li> <li>- Additional TPC-SS Symbols</li> <li>- First timeslot Code List</li> </ul><br><ul style="list-style-type: none"> <li>- channelisation codes</li> </ul><br><ul style="list-style-type: none"> <li>- CHOICE more timeslots</li> <li>- UL CCTrCH List to Remove</li> </ul> E-DCH Info<br>Multi-carrier E-DCH Info for LCR TDD<br>CHOICE Mode                                                                                                                                                                                                                                                                                                                                   | A1, A2, A3, A4,<br>A5, A6, A7, A8,<br>A9, A10<br>A1, A2, A3, A4,<br>A5, A6, A7, A8,<br>A9, A10<br>A1, A2, A3 | 1                                                                                                             | Rel-7<br>Rel-10 | TCR1-242 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not present                                                                                                   |                 | TCR1-243 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |                 | TCR1-244 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.               |                 | TCR1-245 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | No more timeslots                                                                                             |                 | TCR1-246 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not present                                                                                                   |                 | TCR1-247 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-248 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-248 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-249 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-250 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-251 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Maintain                                                                                                      |                 | TCR1-252 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-253 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-254 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-255 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | 1                                                                                                             |                 | TCR1-256 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-257 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-258 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-259 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-260 |
| Downlink HS-PDSCH Information<br><br>Downlink information common for all radio links <ul style="list-style-type: none"> <li>- Downlink DPCH info common for all RL</li> <li>- Timing indication</li> <li>- CFN-targetSFN frame offset</li> <li>- Downlink DPCH power control information</li> <li>- CHOICE mode</li> <li>- TPC Step Size</li> <li>- MAC-d HFN initial value</li> <li>- CHOICE mode</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- TSTD indicator</li> <li>- Default DPCH Offset Value</li> </ul> Downlink information common for all radio links <ul style="list-style-type: none"> <li>- Downlink DPCH info common for all RL</li> <li>- Timing indication</li> <li>- CFN-targetSFN frame offset</li> </ul> | A4                                                                                                           | 1.28 Mcps TDD                                                                                                 |                 | TCR1-261 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | FALSE                                                                                                         |                 | TCR1-262 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-263 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Initialize                                                                                                    |                 | TCR1-264 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-265 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-266 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-267 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-268 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | 1                                                                                                             |                 | TCR1-269 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-270 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-271 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-272 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-273 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | 1.28 Mcps TDD                                                                                                 |                 | TCR1-274 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | FALSE                                                                                                         |                 | TCR1-275 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-276 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | 0 Integer(0..7)                                                                                               |                 | TCR1-277 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-278 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-279 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-280 |
| Downlink information per radio link list <ul style="list-style-type: none"> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CCPCH info</li> <li>- Choice mode</li> <li>- Choice TDD Option</li> <li>- TSTD indicator</li> <li>- Cell parameters ID</li> </ul><br><ul style="list-style-type: none"> <li>- SCTD indicator</li> </ul> <ul style="list-style-type: none"> <li>- Downlink DPCH info for each RL</li> <li>- CHOICE mode</li> <li>- DL CCTrCh List</li> <li>- TFCS ID</li> <li>- Time info</li> <li>- Activation time</li> <li>- Duration</li> </ul>                                                                                                                                      | A5, A6, A7, A8,<br>A9, A10<br>A1, A2, A3                                                                     | TDD                                                                                                           |                 | TCR1-281 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | 1                                                                                                             |                 | TCR1-282 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Not Present                                                                                                   |                 | TCR1-283 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-284 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-285 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | 1.28 Mcps TDD                                                                                                 |                 | TCR1-286 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | FALSE                                                                                                         |                 | TCR1-287 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127)                                               |                 | TCR1-288 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | FALSE                                                                                                         |                 | TCR1-289 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-290 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | TDD                                                                                                           |                 | TCR1-291 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | 2 Integer(1.8)                                                                                                |                 | TCR1-292 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Now                                                                                                           |                 | TCR1-293 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Infinite                                                                                                      |                 | TCR1-294 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              | Infinite                                                                                                      |                 | TCR1-295 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Condition | Value/remark                                                                                                  | Version            | Index    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------|--------------------|----------|
| <ul style="list-style-type: none"> <li>- Common timeslot info</li> <li>- 2nd interleaving mode</li> <li>- TFCI coding</li> <li>- Puncturing limit</li> <li>- Repetition period</li> <li>- Repetition length</li> <li>- Downlink DPCH timeslots and codes</li> <li>- First individual timeslot info</li> <li>- Timeslot number</li> <li>- CHOICE TDD option</li> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble shift and burst type</li> <li>- CHOICE TDD option</li> <li>- Midamble allocation mode</li> <li>- Midamble configuration</li> <li>- Midamble Shift</li> <li>- CHOICE TDD option</li> <li>- Modulation</li> <li>- SS-TPC Symbols</li> <li>- Additional TPC-SS Symbols</li> <li>- First timeslot channelisation codes</li> <li>- CHOICE codes representation</li> <li>- Channelisation codes bitmap</li> <li>- CHOICE more timeslots</li> <li>- UL CCTrCH TPC List</li> <li>- UL TPC TFCS Identity</li> <li>- TFCS ID</li> <li>- Shared Channel Indicator</li> </ul> |           | Default value is "Frame"                                                                                      |                    | TCR1-296 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Reference to clause 6 Parameter set                                                                           |                    | TCR1-297 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Reference to clause 6 Parameter set                                                                           |                    | TCR1-298 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 1                                                                                                             |                    | TCR1-299 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | NULL                                                                                                          |                    | TCR1-300 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-301 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-302 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-303 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 1.28 Mcps TDD                                                                                                 |                    | TCR1-304 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 4 OR 5 OR 6                                                                                                   |                    | TCR1-305 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | TRUE                                                                                                          |                    | TCR1-306 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-307 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 1.28 Mcps TDD                                                                                                 |                    | TCR1-308 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Default midamble                                                                                              |                    | TCR1-309 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 8 (k=16)                                                                                                      |                    | TCR1-310 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                   |                    | TCR1-311 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 1.28 Mcps TDD                                                                                                 |                    | TCR1-312 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | QPSK                                                                                                          |                    | TCR1-313 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 1                                                                                                             |                    | TCR1-314 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Not present                                                                                                   |                    | TCR1-315 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |                    | TCR1-316 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-317 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-318 |
| <ul style="list-style-type: none"> <li>- DL CCTrCH List to Remove</li> <li>- SCCPCH Information for FACH</li> </ul> Downlink information per radio link list <ul style="list-style-type: none"> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CCPCH info</li> <li>- Choice mode</li> <li>- Choice TDD Option</li> <li>- TSTD indicator</li> <li>- Cell parameters ID</li> <li>- SCTD indicator</li> <li>- Downlink DPCH info for each RL</li> <li>- CHOICE mode</li> <li>- DL CCTrCh List</li> <li>- TFCS ID</li> <li>- Time info</li> <li>- Activation time</li> <li>- Duration</li> <li>- Common timeslot info</li> <li>- 2nd interleaving mode</li> <li>- TFCI coding</li> <li>- Puncturing limit</li> <li>- Repetition period</li> <li>- Repetition length</li> <li>- Downlink DPCH timeslots and codes</li> <li>- First individual timeslot info</li> </ul>                                                                                           | A4        | Reference to clause 6.11 Parameter Set                                                                        |                    | TCR1-319 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | No more timeslots                                                                                             |                    | TCR1-320 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.                                   |                    | TCR1-321 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 1                                                                                                             |                    | TCR1-322 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | FALSE                                                                                                         |                    | TCR1-323 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Not present                                                                                                   |                    | TCR1-324 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Not Present                                                                                                   |                    | TCR1-325 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               | R99 and Rel-4 only | TCR1-326 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-327 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | TDD                                                                                                           |                    | TCR1-328 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-329 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | TDD                                                                                                           |                    | TCR1-330 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 1.28 Mcps TDD                                                                                                 |                    | TCR1-331 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | FALSE                                                                                                         |                    | TCR1-332 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127)                                               |                    | TCR1-333 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | FALSE                                                                                                         |                    | TCR1-334 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-335 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | TDD                                                                                                           |                    | TCR1-336 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-337 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 2 Integer(1.8)                                                                                                |                    | TCR1-338 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-339 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Now                                                                                                           |                    | TCR1-340 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Infinite                                                                                                      |                    | TCR1-341 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-342 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Default value is "Frame"                                                                                      |                    | TCR1-343 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Reference to clause 6 Parameter set                                                                           |                    | TCR1-344 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Reference to clause 6 Parameter set                                                                           |                    | TCR1-345 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 1                                                                                                             |                    | TCR1-346 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | NULL                                                                                                          |                    | TCR1-347 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-348 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-349 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                               |                    | TCR1-350 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Condition           | Value/remark                                                                                                  | Version                              | Index     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------|
| <ul style="list-style-type: none"> <li>- Timeslot number</li> <li>- CHOICE TDD option               <ul style="list-style-type: none"> <li>- Timeslot number</li> </ul> </li> <li>- TFCI existence</li> <li>- Midamble shift and burst type</li> <li>- CHOICE TDD option               <ul style="list-style-type: none"> <li>- Midamble allocation mode</li> <li>- Midamble configuration</li> <li>- Midamble Shift</li> </ul> </li> <li>- CHOICE TDD option</li> <li>- Modulation</li> <li>- SS-TPC Symbols</li> <li>- Additional TPC-SS Symbols</li> <li>- First timeslot channelisation codes</li> </ul> | A5                  | 1.28 Mcps TDD                                                                                                 | R99 and Rel-4 only<br>Rel-6<br>Rel-7 | TCR1-351  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | 4 OR 5 OR 6                                                                                                   |                                      | TCR1-352  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | TRUE                                                                                                          |                                      | TCR1-353  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                               |                                      | TCR1-354  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                               |                                      | TCR1-355  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | 1.28 Mcps TDD                                                                                                 |                                      | TCR1-356  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | Default midamble                                                                                              |                                      | TCR1-357  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | 8 (k=16)                                                                                                      |                                      | TCR1-358  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | Not Present                                                                                                   |                                      | TCR1-359  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | 1.28 Mcps TDD                                                                                                 |                                      | TCR1-360  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | QPSK                                                                                                          |                                      | TCR1-361  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | 1                                                                                                             |                                      | TCR1-362  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | Not present                                                                                                   |                                      | TCR1-363  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |                                      | TCR1-364  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                               |                                      | TCR1-365  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | Reference to clause 6.11 Parameter Set                                                                        |                                      | TCR1-366  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | No more timeslots                                                                                             |                                      | TCR1-367  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.                                   |                                      | TCR1-368  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                               |                                      | TCR1-369  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | 1                                                                                                             |                                      | TCR1-370  |
| <ul style="list-style-type: none"> <li>- Shared Channel Indicator</li> <li>- DL CCTrCH List to Remove</li> <li>- SCCPCH Information for FACH</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A5                  | FALSE                                                                                                         | R99 and Rel-4 only<br>Rel-6<br>Rel-7 | TCR1-371  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | Not present                                                                                                   |                                      | TCR1-372  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | Not Present                                                                                                   |                                      | TCR1-373  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                               |                                      | TCR1-374  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | TDD                                                                                                           |                                      | TCR1-375  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | Not Present                                                                                                   |                                      | TCR1-376  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                               |                                      | TCR1-377  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                               |                                      | TCR1-378  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | TDD                                                                                                           |                                      | TCR1-379  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                               |                                      | TCR1-380  |
| <ul style="list-style-type: none"> <li>- E-AGCH Info</li> <li>- CHOICE <i>mode</i> <ul style="list-style-type: none"> <li>- E-HICH Information</li> </ul> </li> </ul> Downlink information per radio link list                                                                                                                                                                                                                                                                                                                                                                                               | A5                  | TDD                                                                                                           | R99 and Rel-4 only<br>Rel-6<br>Rel-7 | TCR1-381  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | 1.28 Mcps TDD                                                                                                 |                                      | TCR1-382  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | FALSE                                                                                                         |                                      | TCR1-383  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127)                                               |                                      | TCR1-384  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                               |                                      | TCR1-385  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | FALSE                                                                                                         |                                      | TCR1-386  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | Not Present                                                                                                   |                                      | TCR1-387  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | Not Present                                                                                                   |                                      | TCR1-388  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | TDD                                                                                                           |                                      | TCR1-389  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     | Not Present                                                                                                   |                                      | TCR1-390  |
| Downlink information per radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A6, A7, A8, A9, A10 | Not Present                                                                                                   | R99 and Rel-4 only<br>Rel-6<br>Rel-7 | TCR1-391  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                                                                                                               |                                      | TCR1-392  |
| MBMS PL Service Restriction Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     | Not Present                                                                                                   | Rel-6                                | TCR1-392  |
| CELL_DCH measurement occasion info LCR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     | Not Present                                                                                                   | Rel-9                                | TCR1-392a |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |
| A7        | This IE need for "Packet to URA_PCH from CELL_FACH in PS"   |
| A8        | This IE need for "Packet to URA_PCH from CELL_DCH in PS"    |
| A9        | This IE need for "Packet to CELL_PCH from CELL_FACH in PS"  |
| A10       | This IE need for "Packet to CELL_PCH from CELL_DCH in PS"   |

## Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM (3.84 Mcps TDD)

| Information Element                                                | Condition                               | Value/remark                                                                                                                                                       | Version | Index    |
|--------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                                                       | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 |                                                                                                                                                                    |         | TCR3-001 |
| RRC transaction identifier                                         |                                         | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | TCR3-002 |
| Integrity check info                                               |                                         |                                                                                                                                                                    |         | TCR3-003 |
| - message authentication code                                      |                                         | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | TCR3-004 |
| - RRC message sequence number                                      |                                         | SS provides the value of this IE, from its internal counter.                                                                                                       |         | TCR3-005 |
| Integrity protection mode info                                     |                                         | Not Present                                                                                                                                                        |         | TCR3-006 |
| Ciphering mode info                                                |                                         | Not Present                                                                                                                                                        |         | TCR3-007 |
| Activation time                                                    | A1, A2, A3                              | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |         | TCR3-008 |
| Activation time                                                    | A4, A5, A6, A7, A8, A9, A10             | Not Present                                                                                                                                                        |         | TCR3-009 |
| New U-RNTI                                                         |                                         | Not Present                                                                                                                                                        |         | TCR3-010 |
| New C-RNTI                                                         | A1, A2, A3, A4, A7, A8, A9, A10         | Not Present                                                                                                                                                        |         | TCR3-011 |
| New C-RNTI                                                         | A5, A6                                  | '1010 1010 1010 1010'                                                                                                                                              |         | TCR3-012 |
| New DSCH-RNTI                                                      | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                                                                        |         | TCR3-013 |
| New H-RNTI                                                         | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                                                                        | Rel-5   | TCR3-014 |
| RRC State indicator                                                | A1, A2, A3, A4                          | CELL_DCH                                                                                                                                                           |         | TCR3-015 |
| RRC State indicator                                                | A5, A6                                  | CELL_FACH                                                                                                                                                          |         | TCR3-016 |
| RRC State indicator                                                | A7, A8                                  | URA_PCH                                                                                                                                                            |         | TCR3-017 |
| RRC State indicator                                                | A9, A10                                 | CELL_PCH                                                                                                                                                           |         | TCR3-018 |
| UTRAN DRX cycle length coefficient                                 | A1, A2, A3, A4, A5, A6                  | Not Present                                                                                                                                                        |         | TCR3-019 |
| UTRAN DRX cycle length coefficient                                 | A7, A8, A9, A10                         | 3                                                                                                                                                                  |         | TCR3-020 |
| CN information info                                                |                                         | Not Present                                                                                                                                                        |         | TCR3-021 |
| URA identity                                                       |                                         | Not Present                                                                                                                                                        |         | TCR3-022 |
| Downlink counter synchronisation info                              |                                         | Not Present                                                                                                                                                        |         | TCR3-023 |
| UL Transport channel information common for all transport channels | A1, A2, A5, A6                          | Not Present                                                                                                                                                        |         | TCR3-024 |

| Information Element                                                | Condition      | Value/remark                                                                                                  | Version | Index    |
|--------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------|---------|----------|
| UL Transport channel information common for all transport channels | A3, A4         |                                                                                                               |         | TCR3-025 |
| - PRACH TFCS                                                       |                | Not Present                                                                                                   |         | TCR3-026 |
| - CHOICE mode                                                      |                | TDD                                                                                                           |         | TCR3-027 |
| - Individual UL CCTrCH information                                 |                |                                                                                                               |         | TCR3-028 |
| - UL TFCS Identity                                                 |                |                                                                                                               |         | TCR3-029 |
| - TFCS ID                                                          |                | 1                                                                                                             |         | TCR3-030 |
| - Shared Channel Indicator                                         |                | FALSE                                                                                                         |         | TCR3-031 |
| - UL TFCS                                                          |                |                                                                                                               |         | TCR3-032 |
| - CHOICE <i>TFCS signalling</i>                                    |                | Normal                                                                                                        |         | TCR3-033 |
| - TFCI Field 1 Information                                         |                |                                                                                                               |         | TCR3-034 |
| - CHOICE <i>TFCS representation</i>                                |                | Complete reconfiguration                                                                                      |         | TCR3-035 |
| - TFCS complete reconfiguration information                        |                |                                                                                                               |         | TCR3-036 |
| - CHOICE <i>CTFC Size</i>                                          |                | Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.11 Parameter Set. |         | TCR3-037 |
| - CTFC information                                                 |                | This IE is repeated for TFC numbers and reference to TS34.108 clause 6. 11 Parameter Set                      |         | TCR3-038 |
| - CTFC                                                             |                | Reference to TS34.108 clause 6. 11 Parameter Set                                                              |         | TCR3-039 |
| - Power offset information                                         |                |                                                                                                               |         | TCR3-040 |
| - CHOICE Gain Factors                                              |                | Computed Gain Factors(The last TFC is set to Signalled Gain Factors)                                          |         | TCR3-041 |
| - Reference TFC ID                                                 |                | 0 Integer(0.. 3)                                                                                              |         | TCR3-042 |
| - CHOICE Gain Factors                                              |                | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)                 |         | TCR3-043 |
| - CHOICE mode                                                      |                | TDD                                                                                                           |         | TCR3-044 |
| - Gain Factor $\beta_k$                                            |                | 15                                                                                                            |         | TCR3-045 |
| - Reference TFC ID                                                 |                | 0 Integer(0.. 3)                                                                                              |         | TCR3-046 |
| - CHOICE mode                                                      |                | TDD                                                                                                           |         | TCR3-047 |
| - TFC subset                                                       |                |                                                                                                               |         | TCR3-048 |
| - CHOICE Subset representation                                     |                | Full transport format combination set                                                                         |         | TCR3-049 |
| - TFC subset list                                                  |                | Not Present                                                                                                   |         | TCR3-050 |
| Added or Reconfigured TrCH information list                        | A1, A2, A5, A6 | Not Present                                                                                                   |         |          |

| Information Element                         | Condition  | Value/remark                                    | Version | Index    |
|---------------------------------------------|------------|-------------------------------------------------|---------|----------|
| Added or Reconfigured TrCH information list | A4         | 2 TrCHs(DCH for DCCH and DCH for DTCH)          |         | TCR3-052 |
| - Added or Reconfigured UL TrCH information |            |                                                 |         | TCR3-053 |
| - Uplink transport channel type             |            | DCH                                             |         | TCR3-054 |
| - UL Transport channel identity             |            | 5                                               |         | TCR3-055 |
| - TFS                                       |            |                                                 |         | TCR3-056 |
| - CHOICE Transport channel type             |            | Dedicated transport channels                    |         | TCR3-057 |
| - Dynamic Transport format information      |            |                                                 |         | TCR3-058 |
| - RLC Size                                  |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-059 |
| - Number of TBs and TTI List                |            | This IE is repeated for maxTF number            |         | TCR3-060 |
| - Transmission Time Interval                |            | Not Present                                     |         | TCR3-061 |
| - Number of Transport blocks                |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-062 |
| - CHOICE Logical Channel list               |            | All                                             |         | TCR3-063 |
| - Semi-static Transport Format information  |            |                                                 |         | TCR3-064 |
| - Transmission time interval                |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-065 |
| - Type of channel coding                    |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-066 |
| - Coding Rate                               |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-067 |
| - Rate matching attribute                   |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-068 |
| - CRC size                                  |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-069 |
| - Uplink transport channel type             |            | DCH                                             |         | TCR3-070 |
| - UL Transport channel identity             |            | 1                                               |         | TCR3-071 |
| - TFS                                       |            |                                                 |         | TCR3-072 |
| - CHOICE Transport channel type             |            | Dedicated transport channels                    |         | TCR3-073 |
| - Dynamic Transport format information      |            |                                                 |         | TCR3-074 |
| - RLC Size                                  |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-075 |
| - Number of TBs and TTI List                |            | This IE is repeated for maxTF number            |         | TCR3-076 |
| - Transmission Time Interval                |            | Not Present                                     |         | TCR3-077 |
| - Number of Transport blocks                |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-078 |
| - CHOICE Logical Channel list               |            | All                                             |         | TCR3-079 |
| - Semi-static Transport Format information  |            |                                                 |         | TCR3-080 |
| - Transmission time interval                |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-081 |
| - Type of channel coding                    |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-082 |
| - Coding Rate                               |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-083 |
| - Rate matching attribute                   |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-084 |
| - CRC size                                  |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-085 |
| Added or Reconfigured TrCH information list | A3         | (DCH for DTCH)                                  |         | TCR3-086 |
| - Added or Reconfigured UL TrCH information |            |                                                 |         | TCR3-087 |
| - Uplink transport channel type             |            | DCH                                             |         | TCR3-088 |
| - UL Transport channel identity             |            | 1                                               |         | TCR3-089 |
| - TFS                                       |            |                                                 |         | TCR3-090 |
| - CHOICE Transport channel type             |            | Dedicated transport channels                    |         | TCR3-091 |
| - Dynamic Transport format information      |            |                                                 |         | TCR3-092 |
| - RLC Size                                  |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-093 |
| - Number of TBs and TTI List                | 1 to maxTF | (This IE is repeated for TF number.)            |         | TCR3-094 |
| - Transmission Time Interval                |            | Not Present                                     |         | TCR3-095 |
| - Number of Transport blocks                |            | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-096 |
| - CHOICE Logical Channel list               |            | All                                             |         | TCR3-097 |
| - Semi-static Transport Format information  |            |                                                 |         | TCR3-098 |

| Information Element                                                | Condition             | Value/remark                                                                                                                                                                                    | Version | Index    |
|--------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| - Transmission time interval                                       |                       | Reference to TS34.108 clause 6.11 Parameter Set                                                                                                                                                 |         | TCR3-099 |
| - Type of channel coding                                           |                       | Reference to TS34.108 clause 6.11 Parameter Set                                                                                                                                                 |         | TCR3-100 |
| - Coding Rate                                                      |                       | Reference to TS34.108 clause 6.11 Parameter Set                                                                                                                                                 |         | TCR3-101 |
| - Rate matching attribute                                          |                       | Reference to TS34.108 clause 6.11 Parameter Set                                                                                                                                                 |         | TCR3-102 |
| - CRC size                                                         |                       | Reference to TS34.108 clause 6.11 Parameter Set                                                                                                                                                 |         | TCR3-103 |
| CHOICE <i>mode</i>                                                 | A1,A2,A3,<br>A4,A5,A6 | TDD                                                                                                                                                                                             |         | TCR3-104 |
| Downlink HS-PDSCH Information                                      |                       |                                                                                                                                                                                                 | Rel-5   | TCR3-105 |
| DL Transport channel information common for all transport channels | A1, A2,<br>A5,A6      | Not Present                                                                                                                                                                                     |         | TCR3-106 |
| DL Transport channel information common for all transport channels | A3,A4                 |                                                                                                                                                                                                 |         | TCR3-107 |
| - SCCPCH TFCS                                                      |                       | Not Present                                                                                                                                                                                     |         | TCR3-108 |
| - CHOICE <i>mode</i>                                               |                       | TDD                                                                                                                                                                                             |         | TCR3-109 |
| - Individual DL CCTrCH information                                 |                       |                                                                                                                                                                                                 |         | TCR3-110 |
| - DL TFCS Identity                                                 |                       |                                                                                                                                                                                                 |         | TCR3-111 |
| - TFCS ID                                                          |                       | 2                                                                                                                                                                                               |         | TCR3-112 |
| - Shared Channel Indicator                                         |                       | FALSE                                                                                                                                                                                           |         | TCR3-113 |
| - CHOICE DL parameters                                             |                       | Independent                                                                                                                                                                                     |         | TCR3-114 |
| - DL TFCS                                                          |                       |                                                                                                                                                                                                 |         | TCR3-115 |
| - CHOICE TFCI Signalling                                           |                       | Normal                                                                                                                                                                                          |         | TCR3-116 |
| - TFCI Field 1 Information                                         |                       |                                                                                                                                                                                                 |         | TCR3-117 |
| - CHOICE TFCS representation                                       |                       | Complete reconfiguration                                                                                                                                                                        |         | TCR3-118 |
| - TFCS complete reconfiguration information                        |                       |                                                                                                                                                                                                 |         | TCR3-119 |
| - CHOICE CTFC Size                                                 |                       |                                                                                                                                                                                                 |         | TCR3-120 |
| - CTFC information                                                 |                       | Number of bits used must be enough to cover all combinations of CTFC from clause TS34.108 clause 6. 11Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6. 11 |         | TCR3-121 |
| - CTFC                                                             |                       | Reference to TS34.108 clause 6. 11 Parameter Set                                                                                                                                                |         | TCR3-122 |
| - Power offset information                                         |                       | Not Present                                                                                                                                                                                     |         | TCR3-123 |
| Added or Reconfigured TrCH information list                        | A1, A2, A5,<br>A6     | Not Present                                                                                                                                                                                     |         | TCR3-124 |

| Information Element                         | Condition   | Value/remark                                    | Version | Index    |
|---------------------------------------------|-------------|-------------------------------------------------|---------|----------|
| Added or Reconfigured TrCH information list | A4          | 2 TrCHs(DCH for DCCH and DCH for DTCH)          |         | TCR3-125 |
| - Added or Reconfigured DL TrCH information |             |                                                 |         | TCR3-126 |
| - Downlink transport channel type           |             | DCH                                             |         | TCR3-127 |
| - DL Transport channel identity             |             | 10                                              |         | TCR3-128 |
| - CHOICE DL parameters                      |             | Same as UL                                      |         | TCR3-129 |
| - Uplink transport channel type             |             | DCH                                             |         | TCR3-130 |
| - UL TrCH identity                          |             | 5                                               |         | TCR3-131 |
| - DCH quality target                        |             |                                                 |         | TCR3-132 |
| - BLER Quality value                        |             | -20 (-2.0)                                      |         | TCR3-133 |
| - Transparent mode signalling info          |             | Not Present                                     |         | TCR3-134 |
| - Downlink transport channel type           |             | DCH                                             |         | TCR3-135 |
| - DL Transport channel identity             |             | 6                                               |         | TCR3-136 |
| - CHOICE DL parameters                      |             | Explicit                                        |         | TCR3-137 |
| - TFS                                       |             |                                                 |         | TCR3-138 |
| - CHOICE Transport channel type             |             | Dedicated transport channels                    |         | TCR3-139 |
| - Dynamic transport format information      |             |                                                 |         | TCR3-140 |
| - RLC Size                                  |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-141 |
| - Number of TBs and TTI List                |             | (This IE is repeated for TF number.)            |         | TCR3-142 |
| - Transmission Time Interval                |             | Not Present                                     |         | TCR3-143 |
| - Number of Transport blocks                |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-144 |
| - Semi-static Transport Format information  |             |                                                 |         | TCR3-145 |
| - Transmission time interval                |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-146 |
| - Type of channel coding                    |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-147 |
| - Coding Rate                               |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-148 |
| - Rate matching attribute                   |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-149 |
| - CRC size                                  |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-150 |
| - DCH quality target                        |             |                                                 |         | TCR3-151 |
| - BLER Quality value                        |             | -20 (-2.0)                                      |         | TCR3-152 |
| Added or Reconfigured TrCH information list | A3          |                                                 |         | TCR3-153 |
| - Added or Reconfigured DL TrCH information |             |                                                 |         | TCR3-154 |
| - Downlink transport channel type           |             | DCH                                             |         | TCR3-155 |
| - DL Transport channel identity             |             | 6                                               |         | TCR3-156 |
| - CHOICE DL parameters                      |             | Explicit                                        |         | TCR3-157 |
| - TFS                                       |             |                                                 |         | TCR3-158 |
| - CHOICE Transport channel type             |             | Dedicated transport channels                    |         | TCR3-159 |
| - Dynamic transport format information      |             |                                                 |         | TCR3-160 |
| - RLC Size                                  |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-161 |
| - Number of TBs and TTI List                |             | (This IE is repeated for TF number.)            |         | TCR3-162 |
| - Transmission Time Interval                |             | Not Present                                     |         | TCR3-163 |
| - Number of Transport blocks                |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-164 |
| - Semi-static Transport Format information  |             |                                                 |         | TCR3-165 |
| - Transmission time interval                |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-166 |
| - Type of channel coding                    |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-167 |
| - Coding Rate                               |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-168 |
| - Rate matching attribute                   |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-169 |
| - CRC size                                  |             | Reference to TS34.108 clause 6.11 Parameter Set |         | TCR3-170 |
| - DCH quality target                        |             |                                                 |         | TCR3-171 |
| - BLER Quality value                        |             | -20 (-2.0)                                      |         | TCR3-172 |
| - Transparent mode signalling info          |             | Not Present                                     |         | TCR3-173 |
| Frequency info                              | A1, A2, A3, |                                                 |         | TCR3-174 |



| Information Element                     | Condition               | Value/remark                                                                               | Version | Index                |
|-----------------------------------------|-------------------------|--------------------------------------------------------------------------------------------|---------|----------------------|
| - Choice mode<br>- UARFCN (Nt)          | A4, A5                  | TDD<br>Reference to clause 5.1 Test frequencies                                            |         | TCR3-175<br>TCR3-176 |
| Frequency info                          | A6, A7, A8, A9, A10     | Not Present                                                                                |         | TCR3-177             |
| Maximum allowed UL TX power             |                         | 33dBm                                                                                      |         | TCR3-178             |
| CHOICE channel requirement              | A5, A6, A7, A8, A9, A10 | Not Present                                                                                |         | TCR3-179             |
| CHOICE channel requirement              | A1, A2, A3, A4          | Uplink DPCH info                                                                           |         | TCR3-180             |
| - Uplink DPCH power control info        |                         |                                                                                            |         |                      |
| - CHOICE mode                           |                         | TDD                                                                                        |         | TCR3-181             |
| - UL target SIR                         |                         | 6                                                                                          |         | TCR3-182             |
| - CHOICE UL OL PC info                  |                         | Individually Signalled                                                                     |         | TCR3-183             |
| - CHOICE TDD option                     |                         | 7.68 Mcps TDD                                                                              |         | TCR3-184             |
| - Individual timeslot interference info |                         | Reference to TS34.108 clause 6.11 Parameter Set (for number of TS's)                       | Rel-7   | TCR3-185<br>TCR3-186 |
| - Individual timeslot interference      |                         |                                                                                            |         |                      |
| - CHOICE TDD option                     |                         | 7.68 Mcps TDD                                                                              | Rel-7   | TCR3-187             |
| - Timeslot number                       |                         | As required by, Reference to TS34.108 clause 6.11 Parameter Set                            |         | TCR3-188             |
| - TDD UL interference                   |                         | As required by, Reference to TS34.108 clause 6.11 Parameter Set (if not specified -60 dBm) |         | TCR3-189             |
| - Primary CCPCH Tx Power                |                         | 18 Integer(6..43) (-70 dBm Received if pathloss not specified)                             |         | TCR3-190             |
| - CHOICE mode                           |                         | TDD                                                                                        |         | TCR3-191             |
| - Uplink Timing Advance Control         |                         | Enabled                                                                                    |         | TCR3-192             |
| - CHOICE Timing Advance                 |                         | 7.68 Mcps TDD                                                                              | Rel-7   | TCR3-193             |
| - CHOICE TDD option                     |                         |                                                                                            |         | TCR3-194             |
| - Extended Timing Advance               | -                       | -                                                                                          |         | TCR3-195             |
| - CHOICE TDD mode                       |                         | 7.68 Mcps TDD                                                                              | Rel-7   | TCR3-196             |
| - Extended UL Timing Advance            | -                       | 0                                                                                          | Rel-7   | TCR3-197             |
| - UL CCTrCH List                        |                         |                                                                                            |         | TCR3-198             |
| - TFCS ID                               |                         | 1                                                                                          |         | TCR3-199             |
| - UL Target SIR                         |                         | Real (-11 .. 20 by step of 0.5dB)<br>Reference to TS34.108 Parameter set.                  |         | TCR3-200<br>TCR3-201 |
| - Time info                             |                         |                                                                                            |         |                      |
| - Activation time                       |                         | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                           |         | TCR3-202             |
| - Duration                              |                         | Infinite                                                                                   |         | TCR3-203             |
| - Common timeslot info                  |                         |                                                                                            |         | TCR3-204             |
| - 2 <sup>nd</sup> interleaving mode     |                         | Default value is "Frame"                                                                   |         | TCR3-205             |
| - TFCI coding                           |                         | Reference to TS34.108 clause 6.11 Parameter set                                            |         | TCR3-206             |
| - Puncturing limit                      |                         | Reference to TS34.108 clause 6.11 Parameter set                                            |         | TCR3-207             |
| - Repetition period                     |                         | 1                                                                                          |         | TCR3-208             |
| - Repetition length                     |                         | null                                                                                       |         | TCR3-209             |
| - Uplink DPCH timeslots and code        |                         |                                                                                            |         | TCR3-210             |
| - Dynamic SF usage                      |                         | FALSE                                                                                      |         | TCR3-211             |
| - First individual timeslot info        |                         |                                                                                            |         | TCR3-212             |
| - Timeslot number                       |                         |                                                                                            |         | TCR3-213             |
| - CHOICE TDD option                     |                         | 7.68 Mcps TDD                                                                              | Rel-7   | TCR3-214             |
| - Timeslot number                       |                         | 1 OR 2 OR 3                                                                                |         | TCR3-215             |
| - TFCI existence                        |                         | TRUE                                                                                       |         | TCR3-216             |
| - Midamble shift and burst type         |                         |                                                                                            |         | TCR3-217             |
| - CHOICE TDD option                     |                         | 7.68 Mcps TTD                                                                              | Rel-7   | TCR3-218<br>TCR3-219 |

| Information Element                                                                                                                                                                                                                                  | Condition                               | Value/remark                                                                                                              | Version | Index    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- Midamble allocation mode</li> <li>- Midamble configuration</li> <li>- Midamble Shift</li> <li>- CHOICE TDD option</li> <li>- First timeslot Code List</li> </ul>                                            | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Default midamble                                                                                                          | Rel-7   | TCR3-220 |
|                                                                                                                                                                                                                                                      |                                         | 8                                                                                                                         |         | TCR3-221 |
|                                                                                                                                                                                                                                                      |                                         | Not Present                                                                                                               |         | TCR3-222 |
|                                                                                                                                                                                                                                                      |                                         | 7.68 Mcps TDD                                                                                                             |         | TCR3-223 |
|                                                                                                                                                                                                                                                      |                                         | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6.11 Parameter Set. |         | TCR3-224 |
|                                                                                                                                                                                                                                                      |                                         | (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6.11 Parameter Set.               |         | TCR3-225 |
|                                                                                                                                                                                                                                                      |                                         | No more timeslots                                                                                                         |         | TCR3-226 |
|                                                                                                                                                                                                                                                      |                                         | Not present                                                                                                               |         | TCR3-227 |
|                                                                                                                                                                                                                                                      |                                         | TDD                                                                                                                       |         | TCR3-228 |
|                                                                                                                                                                                                                                                      |                                         | No data                                                                                                                   |         | TCR3-229 |
| <ul style="list-style-type: none"> <li>- channelisation codes</li> </ul>                                                                                                                                                                             | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                               | Rel-7   | TCR3-230 |
| <ul style="list-style-type: none"> <li>- CHOICE more timeslots</li> <li>- UL CCTrCH List to Remove</li> </ul>                                                                                                                                        |                                         |                                                                                                                           |         |          |
| CHOICE Mode                                                                                                                                                                                                                                          |                                         |                                                                                                                           |         |          |
| <ul style="list-style-type: none"> <li>- Downlink PDSCH information</li> </ul>                                                                                                                                                                       |                                         |                                                                                                                           |         |          |
| Downlink HS-PDSCH Information                                                                                                                                                                                                                        |                                         |                                                                                                                           |         |          |
| Downlink information common for all radio links                                                                                                                                                                                                      |                                         |                                                                                                                           |         |          |
| <ul style="list-style-type: none"> <li>- Downlink DPCH info common for all RL</li> <li>- Timing indication</li> <li>- CFN-targetSFN frame offset</li> <li>- Downlink DPCH power control information</li> </ul>                                       |                                         |                                                                                                                           |         |          |
|                                                                                                                                                                                                                                                      |                                         | Maintain                                                                                                                  |         | TCR3-231 |
|                                                                                                                                                                                                                                                      |                                         | Not Present                                                                                                               |         | TCR3-232 |
|                                                                                                                                                                                                                                                      |                                         |                                                                                                                           |         | TCR3-233 |
| <ul style="list-style-type: none"> <li>- CHOICE mode</li> <li>- TPC Step Size</li> <li>- MAC-d HFN initial value</li> <li>- CHOICE mode</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Default DPCH Offset Value</li> </ul>          | A4                                      | TDD                                                                                                                       | Rel-4   | TCR3-236 |
| Downlink information common for all radio links                                                                                                                                                                                                      |                                         | 1                                                                                                                         |         | TCR3-237 |
| <ul style="list-style-type: none"> <li>- Downlink DPCH info common for all RL</li> <li>- Timing indication</li> <li>- CFN-targetSFN frame offset</li> <li>- Downlink DPCH power control information</li> </ul>                                       |                                         | Not Present                                                                                                               |         | TCR3-238 |
|                                                                                                                                                                                                                                                      |                                         | TDD                                                                                                                       |         | TCR3-239 |
|                                                                                                                                                                                                                                                      |                                         | TDD                                                                                                                       |         | TCR3-240 |
|                                                                                                                                                                                                                                                      |                                         | 7.68 Mcps TDD                                                                                                             |         | TCR3-241 |
|                                                                                                                                                                                                                                                      |                                         | Not Present                                                                                                               |         | TCR3-242 |
|                                                                                                                                                                                                                                                      |                                         |                                                                                                                           |         | TCR3-243 |
|                                                                                                                                                                                                                                                      |                                         | Initialise                                                                                                                |         | TCR3-244 |
|                                                                                                                                                                                                                                                      |                                         | Not Present                                                                                                               |         | TCR3-245 |
| <ul style="list-style-type: none"> <li>- CHOICE mode</li> <li>- TPC Step Size</li> <li>- MAC-d HFN initial value</li> <li>- CHOICE mode</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Default DPCH Offset Value</li> </ul>          | A5, A6, A7, A8, A9, A10                 | TDD                                                                                                                       | Rel-7   | TCR3-246 |
| Downlink information common for all radio links                                                                                                                                                                                                      |                                         | 1                                                                                                                         |         | TCR3-247 |
| <ul style="list-style-type: none"> <li>- Downlink DPCH info common for all RL</li> <li>- Timing indication</li> <li>- CFN-targetSFN frame offset</li> <li>- Downlink DPCH power control information</li> </ul>                                       |                                         | Not Present                                                                                                               |         | TCR3-248 |
|                                                                                                                                                                                                                                                      |                                         | TDD                                                                                                                       |         | TCR3-249 |
|                                                                                                                                                                                                                                                      |                                         | 1                                                                                                                         |         | TCR3-250 |
|                                                                                                                                                                                                                                                      |                                         | Not Present                                                                                                               |         | TCR3-251 |
|                                                                                                                                                                                                                                                      |                                         | TDD                                                                                                                       |         | TCR3-252 |
|                                                                                                                                                                                                                                                      |                                         | TDD                                                                                                                       |         | TCR3-253 |
|                                                                                                                                                                                                                                                      |                                         | 7.68 Mcps TDD                                                                                                             |         | TCR3-254 |
|                                                                                                                                                                                                                                                      |                                         |                                                                                                                           |         |          |
| <ul style="list-style-type: none"> <li>- CHOICE mode</li> <li>- Default DPCH Offset Value</li> </ul>                                                                                                                                                 | A1, A2, A3                              | TDD                                                                                                                       | Rel-4   | TCR3-255 |
| Downlink information common for all radio links                                                                                                                                                                                                      |                                         | 0 Integer(0..7)                                                                                                           |         | TCR3-256 |
|                                                                                                                                                                                                                                                      |                                         | Not Present                                                                                                               |         | TCR3-257 |
| Downlink information per radio link list                                                                                                                                                                                                             |                                         |                                                                                                                           |         |          |
| <ul style="list-style-type: none"> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CCPCH info</li> <li>- Choice mode</li> <li>- Choice TDD Option</li> <li>- CHOICE SyncCase</li> <li>- Timeslot</li> </ul> |                                         | TDD                                                                                                                       |         | TCR3-258 |
|                                                                                                                                                                                                                                                      |                                         | TDD                                                                                                                       |         | TCR3-259 |
|                                                                                                                                                                                                                                                      |                                         | 7.68 Mcps TDD                                                                                                             |         | TCR3-260 |
|                                                                                                                                                                                                                                                      |                                         | Sync Case 1                                                                                                               |         | TCR3-261 |
|                                                                                                                                                                                                                                                      |                                         | Reference clause 6.1.4 Default settings for cell 1                                                                        |         | TCR3-262 |
|                                                                                                                                                                                                                                                      |                                         | Ref. to the Default setting in TS34.108 clause 6.1 (TDD)                                                                  |         | TCR3-263 |
| <ul style="list-style-type: none"> <li>- Cell parameters ID</li> </ul>                                                                                                                                                                               | A1, A2, A3                              | Integer(0..127)                                                                                                           | Rel-7   | TCR3-264 |
|                                                                                                                                                                                                                                                      |                                         | FALSE                                                                                                                     |         | TCR3-265 |
|                                                                                                                                                                                                                                                      |                                         |                                                                                                                           |         |          |
|                                                                                                                                                                                                                                                      |                                         |                                                                                                                           |         |          |
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|                                                                                                                                                                                                                                                      |                                         |                                                                                                                           |         |          |
| <ul style="list-style-type: none"> <li>- SCTD indicator</li> <li>- Downlink DPCH info for each RL</li> </ul>                                                                                                                                         | A1, A2, A3                              |                                                                                                                           | Rel-7   | TCR3-266 |
|                                                                                                                                                                                                                                                      |                                         |                                                                                                                           |         | TCR3-267 |
|                                                                                                                                                                                                                                                      |                                         |                                                                                                                           |         | TCR3-268 |
|                                                                                                                                                                                                                                                      |                                         |                                                                                                                           |         |          |
|                                                                                                                                                                                                                                                      |                                         |                                                                                                                           |         |          |
|                                                                                                                                                                                                                                                      |                                         |                                                                                                                           |         |          |
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| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                     | Version                                                                                                            | Index                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- CHOICE mode</li> <li>- DL CCTrCh List</li> <li>- TFCS ID</li> <li>- Time info</li> <li>- Activation time</li> <li>- Duration</li> <li>- Common timeslot info</li> <li>- 2nd interleaving mode</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 7.68Mcps TDD<br><br>2 Integer(1.8)<br><br>Now<br>Infinite<br><br>Default value is "Frame"                                                                                                                                                                                                                                                                                                                                        | Rel-7                                                                                                              | TCR3-269<br>TCR3-270<br>TCR3-271<br>TCR3-272<br>TCR3-273<br>TCR3-274<br>TCR3-275<br>TCR3-276                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>- TFCI coding</li> <li>- Puncturing limit</li> <li>- Repetition period</li> <li>- Repetition length</li> <li>- Downlink DPCH timeslots and codes VHCR</li> <li>- First individual timeslot info</li> <li>- Timeslot number</li> <li>- CHOICE TDD option</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                               |           | Reference to TS34.108 clause 6.11 Parameter set<br>Reference to TS34.108 clause 6.11 Parameter set<br>1<br>NULL<br><br>7.68 Mcps TDD                                                                                                                                                                                                                                                                                             | Rel-7<br><br><br><br><br><br>Rel-7                                                                                 | TCR3-277<br><br>TCR3-278<br><br>TCR3-279<br>TCR3-280<br>TCR3-281<br>TCR3-282<br>TCR3-283<br>TCR3-284                                                                                                                                                                                                                                                                                                                 |
| <ul style="list-style-type: none"> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble shift and burst type</li> <li>- CHOICE TDD option</li> <li>- CHOICE <i>Burst Type</i></li> <li>- Midamble allocation mode</li> <li>- Midamble configuration</li> <li>- Midamble Shift</li> <li>- CHOICE TDD option</li> <li>- First timeslot channelisation codes VHCR</li> <li>- CHOICE codes representation</li> <li>- Channelisation codes bitmap</li> <li>- CHOICE more timeslots</li> <li>- UL CCTrCH TPC List</li> <li>- UL TPC TFCS Identity</li> <li>- TFCS ID</li> <li>- Shared Channel Indicator</li> <li>- DL CCTrCH List to Remove</li> <li>- SCCPCH Information for FACH</li> </ul> | A4        | 4 OR 5 OR 6<br>TRUE<br><br>7.68 Mcps TDD<br>Type 1<br>Default midamble<br>8<br>Not Present<br>7.68 Mcps TDD<br>Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set.<br>Bitmap<br>Reference to TS34.108 clause 6.11 Parameter Set<br>No more timeslots<br>Default (is previous list or all defined UL CCTrCHs.)<br><br>1<br>FALSE<br>Not present<br>Not Present | Rel-7<br><br><br><br><br><br>Rel-7<br>Rel-7<br><br><br><br><br><br>R99 and Rel-4 only<br><br><br><br><br><br>Rel-7 | TCR3-285<br>TCR3-286<br>TCR3-287<br>TCR3-288<br>TCR3-289<br>TCR3-290<br>TCR3-291<br>TCR3-292<br>TCR3-293<br>TCR3-294<br><br>TCR3-295<br>TCR3-296<br><br>TCR3-297<br>TCR3-298<br><br>TCR3-299<br>TCR3-300<br>TCR3-301<br>TCR3-302<br>TCR3-303<br><br>TCR3-304<br>TCR3-305<br>TCR3-306<br>TCR3-307<br>TCR3-308<br>TCR3-309<br>TCR3-310<br>TCR3-311<br><br>TCR3-312<br><br>TCR3-313<br>TCR3-314<br>TCR3-315<br>TCR3-316 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Condition           | Value/remark                                                                                                           | Version | Index    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- TFCS ID</li> <li>- Time info</li> <li>- Activation time</li> <li>- Duration</li> <li>- Common timeslot info</li> <li>- 2nd interleaving mode</li> <li>- TFCI coding</li> <li>- Puncturing limit</li> <li>- Repetition period</li> <li>- Repetition length</li> <li>- Downlink DPCH timeslots and codes</li> <li>- First individual timeslot info</li> <li>- Timeslot number</li> <li>- CHOICE TDD option</li> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble shift and burst type</li> <li>- CHOICE TDD option</li> <li>- CHOICE <i>Burst Type</i></li> <li>- Midamble allocation mode</li> <li>- Midamble configuration</li> <li>- Midamble Shift</li> <li>- CHOICE TDD option</li> <li>- First timeslot channelisation codes VHCR</li> <li>- CHOICE codes representation</li> <li>- Channelisation codes bitmap</li> <li>- CHOICE more timeslots</li> <li>- UL CCTrCH TPC List</li> <li>- UL TPC TFCS Identity</li> <li>- TFCS ID</li> <li>- Shared Channel Indicator</li> <li>- DL CCTrCH List to Remove</li> <li>- SCCPCH Information for FACH</li> </ul> | A5                  | 2 Integer(1.8)                                                                                                         | Rel-7   | TCR3-317 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Now                                                                                                                    |         | TCR3-318 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Infinite                                                                                                               |         | TCR3-319 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Default value is "Frame"                                                                                               |         | TCR3-320 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Reference to TS34.108 clause 6.11 Parameter set                                                                        |         | TCR3-321 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Reference to TS34.108 clause 6.11 Parameter set                                                                        |         | TCR3-322 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | 1                                                                                                                      |         | TCR3-323 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | NULL                                                                                                                   |         | TCR3-324 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | 7.68 Mcps TDD                                                                                                          |         | TCR3-325 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | 4 OR 5 OR 6                                                                                                            |         | TCR3-326 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | TRUE                                                                                                                   |         | TCR3-327 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | 7.68 Mcps TDD                                                                                                          |         | TCR3-328 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Type 1                                                                                                                 |         | TCR3-329 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Default midamble                                                                                                       |         | TCR3-330 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | 8                                                                                                                      |         | TCR3-331 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Not Present                                                                                                            |         | TCR3-332 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | 7.68 Mcps TDD                                                                                                          |         | TCR3-333 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. |         | TCR3-334 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Bitmap                                                                                                                 |         | TCR3-335 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Reference to TS34.108 clause 6.11 Parameter Set                                                                        |         | TCR3-336 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | No more timeslots                                                                                                      |         | TCR3-337 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Default (is previous list or all defined UL CCTrCHs.)                                                                  |         | TCR3-338 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | 1                                                                                                                      |         | TCR3-339 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | FALSE                                                                                                                  |         | TCR3-340 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Not present                                                                                                            |         | TCR3-341 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     | Not Present                                                                                                            |         | TCR3-342 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-343 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-344 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-345 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-346 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-347 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-348 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-349 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-350 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-351 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-352 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-353 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-354 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-355 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-356 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-357 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-358 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-359 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-360 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                                                        |         | TCR3-361 |
| Downlink information per radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A6, A7, A8, A9, A10 | Not Present                                                                                                            |         | TCR3-362 |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |
| A7        | This IE need for "Packet to URA_PCH from CELL_FACH in PS"   |
| A8        | This IE need for "Packet to URA_PCH from CELL_DCH in PS"    |
| A9        | This IE need for "Packet to CELL_PCH from CELL_FACH in PS"  |
| A10       | This IE need for "Packet to CELL_PCH from CELL_DCH in PS"   |

Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM (3.84 Mcps TDD)

| Information Element                                | Value/remark                                                                                                                                                                                         | Version |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                       |                                                                                                                                                                                                      |         |
| RRC transaction identifier                         | Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message                                                                                |         |
| Integrity check info                               |                                                                                                                                                                                                      |         |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |         |
| CHOICE mode                                        | TDD                                                                                                                                                                                                  |         |
| - CHOICE TDD option                                | 3.84 Mcps TDD                                                                                                                                                                                        | Rel-4   |
| - Uplink Timing Advance                            | 0                                                                                                                                                                                                    |         |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |         |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |         |
| Uplink counter synchronisation info                | Not checked                                                                                                                                                                                          |         |

Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM (1.28 Mcps TDD)

| Information Element                                | Value/remark                                                                                                                                                                                         | Version |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                       |                                                                                                                                                                                                      |         |
| RRC transaction identifier                         | Checked to see if the value is identical to the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message                                                                                    |         |
| Integrity check info                               |                                                                                                                                                                                                      |         |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |         |
| CHOICE mode                                        | TDD                                                                                                                                                                                                  | Rel-4   |
| CHOICE TDD option                                  | 1.28 Mcps TDD                                                                                                                                                                                        | Rel-4   |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |         |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |         |
| Uplink counter synchronization info                | Not checked                                                                                                                                                                                          |         |

Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM (7.68 Mcps TDD)

| Information Element                                | Value/remark                                                                                                                                                                                         | Version |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                       |                                                                                                                                                                                                      |         |
| RRC transaction identifier                         | Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message                                                                                |         |
| Integrity check info                               |                                                                                                                                                                                                      |         |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |         |
| CHOICE mode                                        | TDD                                                                                                                                                                                                  |         |
| - CHOICE TDD option                                | 7.68 Mcps TDD                                                                                                                                                                                        | Rel-7   |
| - Extended Uplink Timing Advance                   | 0                                                                                                                                                                                                    | Rel-7   |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |         |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |         |
| Uplink counter synchronisation info                | Not checked                                                                                                                                                                                          |         |

Contents of TRANSPORT CHANNEL RECONFIGURATION FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identifier    | Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message.                                                                             |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Checked to see if it meets test requirement                                                                                                                                                          |

Contents of TRANSPORT FORMAT COMBINATION CONTROL message: AM or UM (in CELL\_DCH)

| Information Element                         | Value/remark                                                                                                                                                       |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                |                                                                                                                                                                    |
| RRC transaction identifier                  | Arbitrarily selects an integer between 0 and 3                                                                                                                     |
| Integrity check info                        |                                                                                                                                                                    |
| - Message authentication code               | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number               | SS provides the value of this IE, from its internal counter.                                                                                                       |
| CHOICE mode                                 | TDD                                                                                                                                                                |
| - TFCS Id                                   |                                                                                                                                                                    |
| - TFCS ID                                   | 1                                                                                                                                                                  |
| - Shared Channel Indicator                  | FALSE                                                                                                                                                              |
| DPCH/PUSCH TFCS in uplink                   |                                                                                                                                                                    |
| - CHOICE <i>Subset representation</i>       | Allowed transport format combination list                                                                                                                          |
| - Allowed transport format combination list | 0 (The TFC is constructed from ALL TF0)                                                                                                                            |
| Activation time for TFC subset              | Now                                                                                                                                                                |
| TFC Control duration                        | Not Present                                                                                                                                                        |

Contents of TRANSPORT FORMAT COMBINATION CONTROL FAILURE message: AM

| Information Element        | Value/remark                                                                                                             |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Message Type               |                                                                                                                          |
| RRC transaction identifier | Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message. |

|                               |                                                                                                                                                                                                      |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Integrity check info          | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code |                                                                                                                                                                                                      |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Checked to see if it meets test requirement                                                                                                                                                          |

## Contents of RRC CONNECTION REJECT message: UM

| Information Element        | Value/remark                                   |
|----------------------------|------------------------------------------------|
| Message Type               | Arbitrarily selects an integer between 0 and 3 |
| RRC transaction identifier |                                                |
| Initial UE identity        |                                                |
| Rejection cause            | Unspecified                                    |
| Wait Time                  | 0                                              |
| Redirection info           | Not Present                                    |

## Contents of CELL UPDATE message: TM

| Information Element                       | Value/remark                                                                                                                                                                                         |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                              | Checked to see if it is set to the following values                                                                                                                                                  |
| U-RNTI                                    |                                                                                                                                                                                                      |
| - SRNC identity                           | 0000 0000 0001B                                                                                                                                                                                      |
| - S-RNTI                                  | 0000 0000 0000 0000 0001B                                                                                                                                                                            |
| RRC transaction identifier                | Checked to see if it is absent                                                                                                                                                                       |
| Integrity check info                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code             |                                                                                                                                                                                                      |
| - RRC Message sequence number             | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| START List                                | Checked to see if the 'CN domain identity' and 'START' IEs are present for all CN domains supported by the UE                                                                                        |
| - CN domain identity                      | Checked to see if it is one of the supported CN domains                                                                                                                                              |
| - START                                   | Checked to see if it is present                                                                                                                                                                      |
| AM_RLC error indication (RB2, RB3 or RB4) | Checked to see if it is set to 'FALSE'                                                                                                                                                               |
| AM_RLC error indication (RB>4)            | Checked to see if it is set to 'FALSE'                                                                                                                                                               |
| Cell update cause                         | See the test content                                                                                                                                                                                 |
| Failure cause                             | Checked to see if it is absent                                                                                                                                                                       |
| RB timer indicator                        | Checked to see if it is set to 'FALSE'                                                                                                                                                               |
| - T314 expired                            |                                                                                                                                                                                                      |
| - T315 expired                            | Checked to see if it is set to 'FALSE'                                                                                                                                                               |
| Measured results on RACH                  | Not checked                                                                                                                                                                                          |

## Contents of CELL UPDATE CONFIRM message: UM

| Information Element            | Value/remark                                                                                                                     | Version |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                   |                                                                                                                                  |         |
| U-RNTI                         | If this message is sent on CCCH, use the following values. Else, this IE is absent.                                              |         |
| - SRNC identity                | 0000 0000 0001B                                                                                                                  |         |
| - S-RNTI                       | 0000 0000 0000 0000 0001B                                                                                                        |         |
| RRC transaction identifier     | Selects an arbitrary integer between 0 to 3                                                                                      |         |
| Integrity check info           |                                                                                                                                  |         |
| - Message authentication code  | Set to MAC-I value computed by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message Sequence Number  | Set to an arbitrarily selected integer between 0 and 15                                                                          |         |
| Integrity protection mode info | Not Present                                                                                                                      |         |
| Ciphering mode info            | Not Present                                                                                                                      |         |
| Activation time                | Not Present - use default value                                                                                                  |         |

|                                                                    |                      |                    |
|--------------------------------------------------------------------|----------------------|--------------------|
| New U-RNTI                                                         | Not Present          | R99 and Rel-4 only |
| New C-RNTI                                                         | Not Present          |                    |
| New DSCH-RNTI                                                      | Not Present          |                    |
| New H-RNTI                                                         | Not Present          | Rel-5              |
| CHOICE <i>mode</i>                                                 | TDD                  | Rel-7              |
| - New E-RNTI                                                       | Not Present          | Rel-7              |
| RRC State indicator                                                | CELL_FACH            |                    |
| UTRAN DRX cycle length coefficient                                 | Not Present          |                    |
| RLC re-establish indicator (RB2, RB3 and RB4)                      | FALSE                |                    |
| RLC re-establish indicator (RB5 and upwards)                       | FALSE                |                    |
| CN information info                                                | Not Present          |                    |
| URA identity                                                       |                      |                    |
| -URA identity                                                      | 0000 0000 0000 0001B |                    |
| RNC support for change of UE capability                            | Not Present          | Rel-7              |
| RB information to release list                                     | Not Present          |                    |
| RB information to reconfigure list                                 | Not Present          |                    |
| RB information to be affected list                                 | Not Present          |                    |
| Downlink counter synchronization info                              | Not Present          |                    |
| UL Transport channel information common for all transport channels | Not Present          |                    |
| Deleted TrCH information list                                      | Not Present          |                    |
| Added or Reconfigured TrCH information list                        | Not Present          |                    |
| CHOICE Mode                                                        | TDD                  |                    |
| DL Transport channel information common for all transport channels | Not Present          |                    |
| Deleted TrCH information list                                      | Not Present          |                    |
| Added or Reconfigured TrCH information list                        | Not Present          |                    |
| Frequency info                                                     | Not Present          |                    |
| Multi-frequency Info                                               | Not Present          | Rel-7              |
| Control Channel DRX information                                    | Not Present          | Rel-8              |
| SPS Information                                                    | Not Present          | Rel-8              |
| MIMO parameters                                                    | Not Present          | Rel-8              |
| MU-MIMO info                                                       | Not Present          | Rel-10             |
| Maximum allowed UL TX power                                        | Not Present          |                    |
| CHOICE channel requirement                                         | Not Present          |                    |
| E-DCH Info                                                         | Not Present          | Rel-6              |
| Multi-carrier E-DCH Info for LCR TDD                               | Not Present          | Rel-10             |
| CHOICE mode                                                        | TDD                  |                    |
| Downlink information common for all radio links                    | Not Present          |                    |
| Downlink information per radio link list                           | Not Present          |                    |
| MBMS PL Service Restriction Information                            | Not Present          | Rel-6              |
| CELL_DCH measurement occasion info                                 | Not Present          | Rel-9              |
| LCR                                                                |                      |                    |

## Contents of HANDOVER FROM UTRAN COMMAND-GSM message: AM

| Information Element             | Value/remark                                                                                                                    |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Message Type                    |                                                                                                                                 |
| RRC transaction identifier      | Arbitrarily selects an integer between 0 and 3                                                                                  |
| Integrity check info            |                                                                                                                                 |
| - Message authentication code   | Set to MAC-I value computed by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I |
| - RRC Message sequence number   | Set to an arbitrarily selected integer between 0 and 15                                                                         |
| Activation time                 | Not Present - use default value "now"                                                                                           |
| RAB info                        | For each RAB to be handed over. In this version, the maximum size of the list of 1 shall be applied for all system types.       |
| - RAB identity                  | 0000 0001B                                                                                                                      |
| - CN domain identity            | CS domain                                                                                                                       |
| - NAS Synchronization Indicator | Not present                                                                                                                     |
| - Re-establishment time         | Use T315                                                                                                                        |
| CHOICE <i>System type</i>       | GSM                                                                                                                             |
| - Frequency band                | Set to "GSM/ PCS 1900" if GSM/ PCS 1900 is used in this test. Otherwise set to "GSM/DCS 1800 Band"                              |



| Information Element  | Value/remark                                                                                                                                                                                                                                                                                               |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - CHOIC GSM message  | Single GSM message                                                                                                                                                                                                                                                                                         |
| - Single GSM message | GSM HANDOVER COMMAND formatted and coded according to GSM specifications as BIT STRING (1..512). The first/ <i>leftmost/ most significant</i> bit of the bit string contains bit 8 of the first octet of the GSM message. The contents of the HANDOVER COMMAND is to be defined in the specific test case. |

Contents of HANDOVER FROM UTRAN FAILURE message: AM

| Information Element/Group name     | Value/remark                                                                                                                                                                                                |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                       |                                                                                                                                                                                                             |
| RRC transaction identifier         | Checked to see if it matches the same value used in the corresponding downlink HANDOVER FROM UTRAN COMMAND - GSM message                                                                                    |
| Integrity check info               |                                                                                                                                                                                                             |
| - Message authentication code      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ <i>leftmost</i> bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                            |
| Inter-RAT handover failure         |                                                                                                                                                                                                             |
| - Inter-RAT handover failure cause | physical channel failure                                                                                                                                                                                    |
| - Protocol error information       | Check to see if it is absent                                                                                                                                                                                |
| Inter-system message               | Not checked                                                                                                                                                                                                 |

Contents of MEASUREMENT CONTROL Message: AM (Intra-frequency measurement) (1.28 Mcps TDD)

| Information Element                                 | Value/remark                                                                                                                                                              |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                        |                                                                                                                                                                           |
| <b>UE information elements</b>                      |                                                                                                                                                                           |
| RRC transaction identifier                          | Arbitrarily selects an unused integer between 0 to 3                                                                                                                      |
| Integrity check info                                |                                                                                                                                                                           |
| - Message authentication code                       | SS calculates the value of MAC-I for this message and writes to this IE. The first/ <i>leftmost</i> bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number                       | SS provides the value of this IE, from its internal counter.                                                                                                              |
| <b>Measurement information elements</b>             |                                                                                                                                                                           |
| Measurement Identity                                | 1                                                                                                                                                                         |
| Measurement Command                                 | Setup                                                                                                                                                                     |
| Measurement Reporting Mode                          |                                                                                                                                                                           |
| - Measurement Report Transfer Mode                  | Acknowledged mode RLC                                                                                                                                                     |
| - Periodical Reporting/Event Trigger Reporting Mode | Periodical reporting                                                                                                                                                      |
| Additional measurement list                         | Not Present                                                                                                                                                               |
| CHOICE Measurement type                             | Intra-frequency measurement                                                                                                                                               |
| - Intra-frequency measurement                       |                                                                                                                                                                           |
| - <b>Intra-frequency cell info list</b>             |                                                                                                                                                                           |
| - CHOICE intra-frequency cell removal               | Not present                                                                                                                                                               |
| - New intra-frequency cell                          |                                                                                                                                                                           |
| - Intra-frequency cell-id                           | 1                                                                                                                                                                         |
| - Cell info                                         |                                                                                                                                                                           |
| - Cell individual offset                            | 0 (0dB)                                                                                                                                                                   |
| - Reference time difference to cell                 | Not Present                                                                                                                                                               |
| - Read SFN number                                   | FALSE                                                                                                                                                                     |
| - CHOICE mode                                       | TDD                                                                                                                                                                       |
| - Primary CCPCH info                                |                                                                                                                                                                           |
| - CHOICE mode                                       | TDD                                                                                                                                                                       |
| - CHOICE TDD option                                 | 1.28 Mcps TDD                                                                                                                                                             |
| - TSTD indicator                                    | FALSE                                                                                                                                                                     |
| - Cell parameters ID                                | Reference clause 6.1.4 Default settings for cell 1(TDD)                                                                                                                   |
| - SCTD indicator                                    | FALSE                                                                                                                                                                     |
| - Primary CCPCH Tx power                            | Not present                                                                                                                                                               |
| - Timeslot list                                     | Not present                                                                                                                                                               |
| - Cells for measurement                             | Not present                                                                                                                                                               |
| - <b>Intra-frequency measurement quantity</b>       |                                                                                                                                                                           |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Filter coefficient</li> <li>- CHOICE mode</li> <li>- Measurement quantity list</li> <li>- Measurement quantity</li> <li>- <b>Intra-frequency reporting quantity</b></li> <li>- Reporting quantities for active set cells</li> <li>- Cell synchronization information reporting</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Not present (use default 0)<br>TDD<br>Primary CCPCH RSCP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>- Cell Identity reporting indicator</li> <li>- CHOICE mode</li> <li>- Timeslot ISCP reporting indicator</li> <li>- Proposed TGSN reporting indicator</li> <li>- Primary CCPCH RSCP reporting indicator</li> <li>- Pathloss reporting indicator</li> <li>- Reporting quantities for monitored set cells</li> <li>- Cell synchronization information reporting</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TRUE<br>TDD<br>FALSE<br>FALSE<br>FALSE<br>FALSE<br>FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FALSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>- Cell Identity reporting indicator</li> <li>- CHOICE mode</li> <li>- Timeslot ISCP reporting indicator</li> <li>- Proposed TGSN reporting indicator</li> <li>- Primary CCPCH RSCP reporting indicator</li> <li>- Pathloss reporting indicator</li> <li>- Reporting quantities for detected set cells</li> <li>- <b>Reporting cell status</b></li> <li>- <b>Measurement validity</b></li> <li>- <b>CHOICE report criteria</b></li> <li>- Parameters required for each event</li> <li>- Intra-frequency event identity</li> <li>- Triggering condition 1</li> <li>- Triggering condition 2</li> <li>- Reporting Range Constant</li> <li>- Cells forbidden to affect Reporting range</li> <li>- W</li> <li>- Hysteresis</li> <li>- Threshold used frequency</li> <li>- Reporting deactivation</li> <li>- Replacement activation</li> <li>- Time to trigger</li> <li>- Amount of reporting</li> <li>- Reporting interval</li> <li>- Reporting cell status</li> </ul> | TRUE<br>TDD<br>FALSE<br>FALSE<br>FALSE<br>FALSE<br>FALSE<br>Not present<br>Not present<br>Not present<br>Intra-frequency measurement reporting criteria<br>1g<br>Not present<br>( this IE is MP only for event "1b" or "1f", TDD should not present)<br>Not present<br>(this IE is MP only for event "1c", TDD should not present)<br>Not present<br>(this IE is MP only for event "1a" or "1b", TDD should not present)<br>Not present<br>(this IE is MP only for event "1a" or "1b", TDD should not present)<br>Not present<br>(this IE is MP only for event "1a" or "1b", TDD should not present)<br>0 (0 dBm)<br>Not present<br>(this IE is MP only for event "1e", "1f", "1h" or "1i")<br>Not present<br>(this IE is MP only for event "1a", TDD should not present)<br>Not present<br>(this IE is MP only for event "1c" TDD should not present)<br>0 ms<br>Not present<br>(this IE is MP only for event "1a" or "1c" TDD should not present)<br>Not present<br>(this IE is MP only for event "1a" or "1c", TDD should not present)<br>Not present |
| threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Physical channel information elements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| DPCH Compressed mode status info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

Contents of MEASUREMENT CONTROL Message: AM (Inter-frequency measurement) (1.28 Mcps TDD)

| Information Element | Value/remark |
|---------------------|--------------|
|---------------------|--------------|

| Information Element                                 | Value/remark                                                                                                                                                       |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                        |                                                                                                                                                                    |
| <b>UE information elements</b>                      |                                                                                                                                                                    |
| RRC transaction identifier                          | Arbitrarily selects an unused integer between 0 to 3                                                                                                               |
| Integrity check info                                |                                                                                                                                                                    |
| - Message authentication code                       | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number                       | SS provides the value of this IE, from its internal counter.                                                                                                       |
| <b>Measurement information elements</b>             |                                                                                                                                                                    |
| Measurement Identity                                | 2                                                                                                                                                                  |
| Measurement Command                                 | Setup                                                                                                                                                              |
| Measurement Reporting Mode                          |                                                                                                                                                                    |
| - Measurement Report Transfer Mode                  | Acknowledged mode RLC                                                                                                                                              |
| - Periodical Reporting/Event Trigger Reporting Mode | Periodical reporting                                                                                                                                               |
| Additional measurement list                         | Not present                                                                                                                                                        |
| CHOICE Measurement type                             | Inter-frequency measurement                                                                                                                                        |
| - Inter-frequency measurement                       |                                                                                                                                                                    |
| - <b>Inter-frequency cell info list</b>             |                                                                                                                                                                    |
| - CHOICE inter-frequency cell removal               | Not present                                                                                                                                                        |
| - New inter-frequency cell                          |                                                                                                                                                                    |
| - Inter-frequency cell-id                           | 4                                                                                                                                                                  |
| - Frequency info                                    |                                                                                                                                                                    |
| - CHOICE mode                                       | TDD                                                                                                                                                                |
| - UARFCN (Nt)                                       | Reference to table 6.1.7 for cell 4                                                                                                                                |
| - Cell info                                         |                                                                                                                                                                    |
| - Cell individual offset                            | 0 (0dB)                                                                                                                                                            |
| - Reference time difference to cell                 | Not Present                                                                                                                                                        |
| - Read SFN number                                   | FALSE                                                                                                                                                              |
| - CHOICE mode                                       | TDD                                                                                                                                                                |
| - Primary CCPCH info                                |                                                                                                                                                                    |
| - CHOICE mode                                       | TDD                                                                                                                                                                |
| - CHOICE TDD option                                 | 1.28 Mcps TDD                                                                                                                                                      |
| - TSTD indicator                                    | FALSE                                                                                                                                                              |
| - Cell parameters ID                                | Reference clause 6.1.4 Default settings for cell 4(TDD)                                                                                                            |
| - SCTD indicator                                    | FALSE                                                                                                                                                              |
| - Primary CCPCH Tx power                            | Not present                                                                                                                                                        |
| - Timeslot list                                     | Not present                                                                                                                                                        |
| - Cells for measurement                             | Not present                                                                                                                                                        |
| - <b>Inter-frequency measurement quantity</b>       |                                                                                                                                                                    |
| - CHOICE <i>reporting criteria</i>                  | Inter-frequency reporting criteria                                                                                                                                 |
| - Inter-frequency reporting criteria                |                                                                                                                                                                    |
| - Filter coefficient                                | Not present (use default 0)                                                                                                                                        |
| - CHOICE <i>mode</i>                                | TDD                                                                                                                                                                |
| - Measurement quantity for frequency quality        | Primary CCPCH RSCP                                                                                                                                                 |
| estimate                                            |                                                                                                                                                                    |
| - <b>Inter-frequency reporting quantity</b>         |                                                                                                                                                                    |
| - UTRA Carrier RSSI                                 | FALSE                                                                                                                                                              |
| - Frequency quality estimate                        | FALSE                                                                                                                                                              |
| - Non frequency related cell reporting quantities   | This parameters is not used in this release and should be set to FALSE. It shall be ignored by the UE.                                                             |
| - Cell synchronization information reporting        | FALSE                                                                                                                                                              |
| indicator                                           |                                                                                                                                                                    |
| - Cell Identity reporting indicator                 | FALSE                                                                                                                                                              |
| - CHOICE mode                                       | TDD                                                                                                                                                                |
| - Timeslot ISCP reporting indicator                 | FALSE                                                                                                                                                              |
| - Proposed TGSN reporting indicator                 | FALSE                                                                                                                                                              |
| - Primary CCPCH RSCP reporting indicator            | FALSE                                                                                                                                                              |
| - Pathloss reporting indicator                      | FALSE                                                                                                                                                              |
| - <b>Reporting cell status</b>                      | Not present                                                                                                                                                        |
| - <b>Measurement validity</b>                       | Not present                                                                                                                                                        |
| - <b>Inter-frequency set update</b>                 | Not present                                                                                                                                                        |
| - <b>CHOICE report criteria</b>                     | (this IE only for FDD)                                                                                                                                             |
| - Parameters required for each event                | Inter-frequency measurement reporting criteria                                                                                                                     |
| - Inter-frequency event identity                    | 2b                                                                                                                                                                 |
| - Threshold used frequency                          | -70 dBm                                                                                                                                                            |

| Information Element                                                                                                                                                                                                                                                                                    | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- W used frequency</li> <li>- Hysteresis</li> <li>- Time to trigger</li> <li>- Reporting cell status</li> <li>- Maximum number of reporting cells</li> <li>- Parameters required for each non-used frequency</li> <li>- Threshold non used frequency</li> </ul> | <p>(this IE is MP for event 2b, 2d, or 2f<br/>Ranges used depend on measurement quantity.<br/>CPICH Ec/No -24..0dB<br/>CPICH/Primary CCPCH RSCP -115..-25dBm)<br/>0 (0)<br/>(this IE is MP for event 2a, 2b, 2d or 2f<br/>Real(0, 0.1..2.0 by step of 0.1))<br/>2 (1 dBm)<br/>5 000 ms<br/>Within active set or within virtual active set or of the other RAT<br/>1</p> <p>-70 dBm<br/>(this IE is MP for event 2a, 2b, 2c or 2e<br/>Ranges used depend on measurement quantity.<br/>CPICH Ec/No -24..0dB<br/>CPICH/Primary CCPCH RSCP -115..-25dBm.<br/>This IE is not needed if the IE "Inter-frequency event identity" is set to 2a. However, it is specified to be mandatory to align with the ASN.1)<br/>0 (0)<br/>(this IE is MP if 2a, 2b, 2c or 2e<br/>Real(0, 0.1..2.0 by step of 0.1))</p> |
| <b>Physical channel information elements</b>                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| DPCH Compressed mode status info                                                                                                                                                                                                                                                                       | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Contents of MEASUREMENT CONTROL FAILURE Message: AM

| Information Element                                                             | Value/remark                                                                                                                                                                                         |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                                    |                                                                                                                                                                                                      |
| RRC transaction identifier                                                      | Checked to see if it's set to the identical value for the same IE in the downlink MEASUREMENT CONTROL message                                                                                        |
| Integrity check info                                                            |                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>- Message authentication code</li> </ul> | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| <ul style="list-style-type: none"> <li>- RRC Message sequence number</li> </ul> | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                                                   | See the test content                                                                                                                                                                                 |

## Contents of MEASUREMENT REPORT message: AM Intra-frequency measurement (3.84 Mcps TDD)

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Version |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type<br>Integrity check info<br>- Message authentication code<br><br>- RRC Message sequence number<br><br>Measurement identity<br>Measured Results<br>- Intra-frequency measured results<br>- Cell measured results<br>- Cell Identity<br>- Cell synchronisation information<br>- CHOICE mode<br>- Cell parameters Id<br><br>- Proposed TGSN<br>- Primary CCPCH RSCP<br>- Pathloss<br>- Timeslot list<br>Measured results on RACH<br>Additional measured results<br>Event results<br>- CHOICE <i>event result</i><br>- Intra-frequency measurement event results<br>- Intra-frequency event identity<br>- Cell measurement event results<br>- CHOICE <i>mode</i><br>- Primary CCPCH info<br>- CHOICE mode<br>- CHOICE TDD option<br>- CHOICE <i>SyncCase</i><br>- Timeslot<br><br>- Cell parameters ID<br><br>- SCTD indicator | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.<br>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.<br>1<br><br>Checked that this IE is present<br>Checked that this IE is absent<br>TDD<br>Different from the Default setting in TS34.108 clause 6.1 (TDD)<br>Checked that this IE is absent<br>Checked that this IE is absent<br>Checked that this IE is absent<br>Checked that this IE is absent<br>Checked that this IE is absent<br>Checked that this IE is absent<br><br>Intra-frequency measurement event results<br><br>Ig<br><br>TDD<br><br>TDD<br>3.84 Mcps TDD<br>Sync Case 1<br>Reference clause 6.1.4 Default settings for cell 1(TDD) (S/B 0)<br>Reference clause 6.1.4 Default settings for cell 1(TDD)<br>FALSE | Rel-4   |

## Contents of MEASUREMENT REPORT message: AM (intra-frequency measurement) (1.28 Mcps TDD)

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type<br>Integrity check info<br>- Message authentication code<br><br>- RRC Message sequence number<br><br>Measurement identity<br>Measured Results<br>- Intra-frequency measured results<br>- Cell measured results<br>- Cell Identity<br>- Cell synchronization information<br>- CHOICE mode<br>- Cell parameters Id<br>- Proposed TGSN<br>- Primary CCPCH RSCP<br>- Pathloss<br>- Timeslot list<br>Measured results on RACH<br>Additional measured results | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.<br>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.<br>1<br><br>Checked that this IE is present<br>Checked that this IE is absent<br>TDD<br>Different from the Default setting in clause 6.1 (TDD)<br>Checked that this IE is absent<br>Checked that this IE is absent<br>Checked that this IE is absent<br>Checked that this IE is absent<br>Checked that this IE is absent<br>Checked that this IE is absent |

|                                             |                                                            |
|---------------------------------------------|------------------------------------------------------------|
| Event results                               |                                                            |
| - CHOICE <i>event result</i>                | Intra-frequency measurement event results                  |
| - Intra-frequency measurement event results |                                                            |
| - Intra-frequency event identity            | Ig                                                         |
| - Cell measurement event results            |                                                            |
| - CHOICE <i>mode</i>                        | TDD                                                        |
| - Primary CCPCH info                        |                                                            |
| - CHOICE mode                               | TDD                                                        |
| - CHOICE TDD option                         | 1.28 Mcps TDD                                              |
| -TSTD indicator                             | FALSE                                                      |
| - Cell parameters ID                        | Reference in clause 6.1.4 Default settings for cell 1(TDD) |
| - SCTD indicator                            | FALSE                                                      |

Contents of MEASUREMENT REPORT message: AM Intra-frequency measurement (7.68 Mcps TDD)

| Information Element                         | Value/remark                                                                                                                                                                                         | Version |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                |                                                                                                                                                                                                      |         |
| Integrity check info                        |                                                                                                                                                                                                      |         |
| - Message authentication code               | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number               | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Measurement identity                        | 1                                                                                                                                                                                                    |         |
| Measured Results                            |                                                                                                                                                                                                      |         |
| - Intra-frequency measured results          |                                                                                                                                                                                                      |         |
| - Cell measured results                     |                                                                                                                                                                                                      |         |
| - Cell Identity                             | Checked that this IE is present                                                                                                                                                                      |         |
| - Cell synchronisation information          | Checked that this IE is absent                                                                                                                                                                       |         |
| - CHOICE mode                               | TDD                                                                                                                                                                                                  |         |
| - Cell parameters Id                        | Different from the Default setting in TS34.108 clause 6.1 (TDD)                                                                                                                                      |         |
| - Proposed TGSN                             | Checked that this IE is absent                                                                                                                                                                       |         |
| - Primary CCPCH RSCP                        | Checked that this IE is absent                                                                                                                                                                       |         |
| - Pathloss                                  | Checked that this IE is absent                                                                                                                                                                       |         |
| - Timeslot list                             | Checked that this IE is absent                                                                                                                                                                       |         |
| Measured results on RACH                    | Checked that this IE is absent                                                                                                                                                                       |         |
| Additional measured results                 | Checked that this IE is absent                                                                                                                                                                       |         |
| Event results                               |                                                                                                                                                                                                      |         |
| - CHOICE <i>event result</i>                | Intra-frequency measurement event results                                                                                                                                                            |         |
| - Intra-frequency measurement event results |                                                                                                                                                                                                      |         |
| - Intra-frequency event identity            | Ig                                                                                                                                                                                                   |         |
| - Cell measurement event results            |                                                                                                                                                                                                      |         |
| - CHOICE <i>mode</i>                        | TDD                                                                                                                                                                                                  |         |
| - Primary CCPCH info                        |                                                                                                                                                                                                      |         |
| - CHOICE mode                               | TDD                                                                                                                                                                                                  |         |
| - CHOICE TDD option                         | 7.68 Mcps TDD                                                                                                                                                                                        |         |
| - CHOICE <i>SyncCase</i>                    | Sync Case 1                                                                                                                                                                                          |         |
| - Timeslot                                  | Reference clause 6.1.4 Default settings for cell 1(TDD) (S/B 0)                                                                                                                                      |         |
| - Cell parameters ID                        | Reference clause 6.1.4 Default settings for cell 1(TDD)                                                                                                                                              |         |
| - SCTD indicator                            | FALSE                                                                                                                                                                                                | Rel-7   |

Contents of MEASUREMENT REPORT message: AM (inter-frequency measurement) (3.84 Mcps TDD)

| Information Element                         | Value/remark                                                                                                                                                                                         | Version |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                |                                                                                                                                                                                                      |         |
| Integrity check info                        |                                                                                                                                                                                                      |         |
| - Message authentication code               | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number               | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Measurement identity                        | 1                                                                                                                                                                                                    |         |
| Measured Results                            | Checked that this IE is absent                                                                                                                                                                       |         |
| Measured results on RACH                    | Checked that this IE is absent                                                                                                                                                                       |         |
| Additional measured results                 | Checked that this IE is absent                                                                                                                                                                       |         |
| Event results                               |                                                                                                                                                                                                      |         |
| - CHOICE <i>event result</i>                | Inter-frequency measurement event results                                                                                                                                                            |         |
| - Inter-frequency measurement event results |                                                                                                                                                                                                      |         |
| - Inter-frequency event identity            | 2b                                                                                                                                                                                                   |         |
| - Inter-frequency cells                     |                                                                                                                                                                                                      |         |
| - Frequency info                            | Reference to table 6.1.7 for cell 4                                                                                                                                                                  |         |
| - Non frequency related measurement         |                                                                                                                                                                                                      |         |
| event results                               |                                                                                                                                                                                                      |         |
| - Cell measurement event results            | TDD                                                                                                                                                                                                  |         |
| - CHOICE <i>mode</i>                        |                                                                                                                                                                                                      |         |
| - Primary CCPCH info                        | TDD                                                                                                                                                                                                  |         |
| - CHOICE mode                               | 3.84 Mcps TDD                                                                                                                                                                                        |         |
| - CHOICE TDD option                         | Sync Case 1                                                                                                                                                                                          |         |
| - CHOICE <i>SyncCase</i>                    | Reference clause 6.1.4 Default settings for cell 1(TDD) (S/B 0)                                                                                                                                      |         |
| - Timeslot                                  | Reference clause 6.1.4 Default settings for cell 1(TDD)                                                                                                                                              |         |
| - Cell parameters ID                        | FALSE                                                                                                                                                                                                |         |
| - SCTD indicator                            | Checked that this IE is absent                                                                                                                                                                       |         |
| GSM OTD reference cell                      |                                                                                                                                                                                                      |         |

Contents of MEASUREMENT REPORT message: AM (inter-frequency measurement) (1.28 Mcps TDD)

| Information Element                         | Value/remark                                                                                                                                                                                         | Version |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                |                                                                                                                                                                                                      |         |
| Integrity check info                        |                                                                                                                                                                                                      |         |
| - Message authentication code               | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number               | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Measurement identity                        | 1                                                                                                                                                                                                    |         |
| Measured Results                            | Checked that this IE is absent                                                                                                                                                                       |         |
| Measured results on RACH                    | Checked that this IE is absent                                                                                                                                                                       |         |
| Additional measured results                 | Checked that this IE is absent                                                                                                                                                                       |         |
| Event results                               |                                                                                                                                                                                                      |         |
| - CHOICE <i>event result</i>                | Inter-frequency measurement event results                                                                                                                                                            |         |
| - Inter-frequency measurement event results |                                                                                                                                                                                                      |         |
| - Inter-frequency event identity            | 2b                                                                                                                                                                                                   |         |
| - Inter-frequency cells                     |                                                                                                                                                                                                      |         |
| - Frequency info                            | Reference to table 6.1.7 for cell 4                                                                                                                                                                  |         |
| - Non frequency related                     |                                                                                                                                                                                                      |         |
| measurement event results                   |                                                                                                                                                                                                      |         |
| - Cell measurement event results            |                                                                                                                                                                                                      |         |
| - CHOICE <i>mode</i>                        | TDD                                                                                                                                                                                                  |         |
| - Primary CCPCH info                        |                                                                                                                                                                                                      |         |
| - CHOICE <i>mode</i>                        | TDD                                                                                                                                                                                                  |         |

| Information Element                                                                                                                                     | Value/remark                                                                                                                 | Version |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------|
| <ul style="list-style-type: none"> <li>- CHOICE TDD option</li> <li>- TSTD indicator</li> <li>- Cell parameters ID</li> <li>- SCTD indicator</li> </ul> | 1.28 Mcps TDD<br>FALSE<br>Reference clause 6.1.4 Default settings for cell 1(TDD)<br>FALSE<br>Checked that this IE is absent | Rel-4   |

Contents of MEASUREMENT REPORT message: AM (inter-frequency measurement) (7.68 Mcps TDD)

| Information Element                                                                                                  | Value/remark                                                                                                                                                                                         | Version |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type<br>Integrity check info <ul style="list-style-type: none"> <li>- Message authentication code</li> </ul> | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| <ul style="list-style-type: none"> <li>- RRC Message sequence number</li> </ul>                                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Measurement identity                                                                                                 | 1                                                                                                                                                                                                    |         |
| Measured Results                                                                                                     | Checked that this IE is absent                                                                                                                                                                       |         |
| Measured results on RACH                                                                                             | Checked that this IE is absent                                                                                                                                                                       |         |
| Additional measured results                                                                                          | Checked that this IE is absent                                                                                                                                                                       |         |
| Event results                                                                                                        |                                                                                                                                                                                                      |         |
| <ul style="list-style-type: none"> <li>- CHOICE <i>event result</i></li> </ul>                                       | Inter-frequency measurement event results                                                                                                                                                            |         |
| <ul style="list-style-type: none"> <li>- Inter-frequency measurement event results</li> </ul>                        | 2b                                                                                                                                                                                                   |         |
| <ul style="list-style-type: none"> <li>- Inter-frequency event identity</li> </ul>                                   |                                                                                                                                                                                                      |         |
| <ul style="list-style-type: none"> <li>- Inter-frequency cells</li> </ul>                                            |                                                                                                                                                                                                      |         |
| <ul style="list-style-type: none"> <li>- Frequency info</li> </ul>                                                   | Reference to table 6.1.7 for cell 4                                                                                                                                                                  |         |
| <ul style="list-style-type: none"> <li>- Non frequency related measurement event results</li> </ul>                  |                                                                                                                                                                                                      |         |
| <ul style="list-style-type: none"> <li>- Cell measurement event results</li> </ul>                                   |                                                                                                                                                                                                      |         |
| <ul style="list-style-type: none"> <li>- CHOICE <i>mode</i></li> </ul>                                               | TDD                                                                                                                                                                                                  |         |
| <ul style="list-style-type: none"> <li>- Primary CCPCH info</li> </ul>                                               |                                                                                                                                                                                                      |         |
| <ul style="list-style-type: none"> <li>- CHOICE mode</li> </ul>                                                      | TDD                                                                                                                                                                                                  |         |
| <ul style="list-style-type: none"> <li>- CHOICE TDD option</li> </ul>                                                | 7.68 Mcps TDD                                                                                                                                                                                        | Rel-7   |
| <ul style="list-style-type: none"> <li>- CHOICE <i>SyncCase</i></li> </ul>                                           | Sync Case 1                                                                                                                                                                                          |         |
| <ul style="list-style-type: none"> <li>- Timeslot</li> </ul>                                                         | Reference clause 6.1.4 Default settings for cell 1(TDD) (S/B 0)                                                                                                                                      |         |
| <ul style="list-style-type: none"> <li>- Cell parameters ID</li> </ul>                                               | Reference clause 6.1.4 Default settings for cell 1(TDD)                                                                                                                                              |         |
| <ul style="list-style-type: none"> <li>- SCTD indicator</li> </ul>                                                   | FALSE                                                                                                                                                                                                |         |
| GSM OTD reference cell                                                                                               | Checked that this IE is absent                                                                                                                                                                       | Rel-4   |

Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM (3.84 Mcps TDD)

| Information Element                                                             | Condition                               | Value/remark                                                                                                                                                       | Version | Index    |
|---------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                                                                    | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 |                                                                                                                                                                    |         | PCR3-001 |
| RRC transaction identifier                                                      |                                         | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | PCR3-002 |
| Integrity check info                                                            |                                         |                                                                                                                                                                    |         | PCR3-003 |
| <ul style="list-style-type: none"> <li>- message authentication code</li> </ul> |                                         | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | PCR3-004 |
| <ul style="list-style-type: none"> <li>- RRC message sequence number</li> </ul> |                                         | SS provides the value of this IE, from its internal counter.                                                                                                       |         | PCR3-005 |
| Integrity protection mode info                                                  |                                         | Not Present                                                                                                                                                        |         | PCR3-006 |
| Ciphering mode info                                                             |                                         | Not Present                                                                                                                                                        |         | PCR3-007 |
| Activation time                                                                 | A1, A2, A3                              | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |         | PCR3-008 |
| Activation time                                                                 | A4, A5, A6, A7, A8, A9,                 | Not Present                                                                                                                                                        |         | PCR3-009 |



| Information Element                   | Condition                               | Value/remark                                                                                 | Version | Index    |
|---------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------|---------|----------|
| New U-RNTI                            | A10                                     | Not Present                                                                                  |         | PCR3-010 |
| New C-RNTI                            | A1, A2, A3, A4, A7, A8, A9, A10         | Not Present                                                                                  |         | PCR3-011 |
| New C-RNTI                            | A5, A6                                  | '1010 1010 1010 1010'                                                                        |         | PCR3-012 |
| New DSCH-RNTI                         | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                  |         | PCR3-013 |
| New H-RNTI                            | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                  | Rel-5   | PCR3-014 |
| RRC State indicator                   | A1, A2, A3, A4                          | CELL_DCH                                                                                     |         | PCR3-015 |
| RRC State indicator                   | A5, A6                                  | CELL_FACH                                                                                    |         | PCR3-016 |
| RRC State indicator                   | A7, A8                                  | URA_PCH                                                                                      |         | PCR3-017 |
| RRC State indicator                   | A9, A10                                 | CELL_PCH                                                                                     |         | PCR3-018 |
| UTRAN DRX cycle length coefficient    | A1, A2, A3, A4, A5, A6                  | Not Present                                                                                  |         | PCR3-019 |
| UTRAN DRX cycle length coefficient    | A7, A8, A9, A10                         | 3                                                                                            |         | PCR3-020 |
| CN information info                   |                                         | Not Present                                                                                  |         | PCR3-021 |
| URA identity                          |                                         | Not Present                                                                                  |         | PCR3-022 |
| Downlink counter synchronisation info |                                         | Not Present                                                                                  |         | PCR3-023 |
| Frequency info                        | A1, A2, A3, A4, A5                      | Not Present                                                                                  |         | PCR3-024 |
| - Choice mode                         |                                         | TDD                                                                                          |         | PCR3-025 |
| - UARFCN (Nt)                         |                                         | Reference to clause 5.1 Test frequencies                                                     |         | PCR3-026 |
| Frequency info                        | A6, A7, A8, A9, A10                     | Not Present                                                                                  |         | PCR3-027 |
| Maximum allowed UL TX power           |                                         | 33dBm                                                                                        |         | PCR3-028 |
| CHOICE channel requirement            | A5, A6, A7, A8, A9, A10                 | Not Present                                                                                  |         | PCR3-029 |
| CHOICE channel requirement            | A1, A2, A3, A4                          | Uplink DPCH info                                                                             |         | PCR3-030 |
| - Uplink DPCH power control info      |                                         |                                                                                              |         | PCR3-031 |
| - CHOICE mode                         |                                         | TDD                                                                                          |         | PCR3-032 |
| - UL target SIR                       |                                         | 6                                                                                            |         | PCR3-033 |
| - CHOICE UL OL PC info                |                                         | Individually Signalled                                                                       |         | PCR3-034 |
| - CHOICE TDD option                   |                                         | 3.84 Mcps TDD                                                                                | Rel-4   | PCR3-035 |
| - Individual timeslot interference    |                                         | Reference to TS34.108 clause 6.10.3                                                          |         | PCR3-036 |
| info                                  |                                         | Parameter Set                                                                                |         |          |
| - Individual timeslot interference    |                                         |                                                                                              |         | PCR3-037 |
| - CHOICE TDD option                   |                                         | 3.84 Mcps TDD                                                                                | Rel-4   | PCR3-038 |
| - Timeslot number                     |                                         | As required by, Reference to TS34.108 clause 6.10.3 Parameter Set                            |         | PCR3-039 |
| - TDD UL interference                 |                                         | As required by, Reference to TS34.108 clause 6.10.3 Parameter Set (if not specified -60 dBm) |         |          |
| - Primary CCPCH Tx Power              |                                         | 18 Integer(6..43) (-70 dBm Received if pathloss not specified)                               |         | PCR3-041 |
| - CHOICE mode                         |                                         | TDD                                                                                          |         | PCR3-042 |
| - Uplink Timing Advance Control       |                                         | Enabled                                                                                      |         | PCR3-043 |
| - CHOICE Timing Advance               |                                         | 3.84 Mcps TDD (Default)                                                                      | Rel-4   | PCR3-044 |
| - CHOICE TDD option                   |                                         |                                                                                              |         | PCR3-045 |
| - UL CCTrCH List                      |                                         |                                                                                              |         | PCR3-046 |
| - TFCS ID                             |                                         | 1                                                                                            |         | PCR3-047 |
| - UL Target SIR                       |                                         | Real (-11 .. 20 by step of 0.5dB)                                                            |         | PCR3-048 |
| - Time info                           |                                         | Reference to TS34.108 Parameter set.                                                         |         | PCR3-049 |
| - Activation time                     |                                         | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                             |         | PCR3-050 |
| - Duration                            |                                         | Infinite                                                                                     |         | PCR3-051 |
| - Common timeslot info                |                                         |                                                                                              |         | PCR3-052 |
| - 2 <sup>nd</sup> interleaving mode   |                                         | Default value is "Frame"                                                                     |         | PCR3-053 |

| Information Element                                | Condition                                        | Value/remark                                                                                                                    | Version | Index    |
|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| - TFCI coding                                      |                                                  | Reference to TS34.108 clause 6<br>Parameter set                                                                                 |         | PCR3-054 |
| - Puncturing limit                                 |                                                  | Reference to TS34.108 clause 6<br>Parameter set                                                                                 |         | PCR3-055 |
| - Repetition period                                |                                                  | 1                                                                                                                               |         | PCR3-056 |
| - Repetition length                                |                                                  | Null                                                                                                                            |         | PCR3-057 |
| - Uplink DPCH timeslots and code                   |                                                  |                                                                                                                                 |         | PCR3-058 |
| - Dynamic SF usage                                 |                                                  | FALSE                                                                                                                           |         | PCR3-059 |
| - First individual timeslot info                   |                                                  |                                                                                                                                 |         | PCR3-060 |
| - Timeslot number                                  |                                                  |                                                                                                                                 |         | PCR3-061 |
| - CHOICE TDD option                                |                                                  | 3.84 Mcps TDD                                                                                                                   | Rel-4   | PCR3-062 |
| - Timeslot number                                  |                                                  | 1 OR 2 OR 3                                                                                                                     |         | PCR3-063 |
| - TFCI existence                                   |                                                  | TRUE                                                                                                                            |         | PCR3-064 |
| - Midamble shift and burst type                    |                                                  |                                                                                                                                 |         | PCR3-065 |
| - CHOICE TDD option                                |                                                  | 3.84 Mcps TDD                                                                                                                   | Rel-4   | PCR3-066 |
| - Midamble allocation mode                         |                                                  | Default midamble                                                                                                                |         | PCR3-067 |
| - Midamble configuration                           |                                                  | 16                                                                                                                              |         | PCR3-068 |
| - Midamble Shift                                   |                                                  | Not Present                                                                                                                     |         | PCR3-069 |
| - CHOICE TDD option                                |                                                  | 3.84 Mcps TDD (No Data)                                                                                                         | Rel-4   | PCR3-070 |
| - First timeslot Code List                         |                                                  | Repeated (1,2) for each channelisation<br>code assigned in the slot to meet the<br>needs of TS34.108 clause 6 Parameter<br>Set. |         | PCR3-071 |
| - channelisation codes                             |                                                  | (SF/ i) where i denotes an unassigned<br>code matching the SF specified in<br>TS34.108 clause 6 Parameter Set.                  |         | PCR3-072 |
| - CHOICE more timeslots                            |                                                  | No more timeslots (No Data)                                                                                                     |         | PCR3-073 |
| - UL CCTrCH List to Remove                         |                                                  | Not present                                                                                                                     |         | PCR3-074 |
| <b>Downlink radio resources</b>                    |                                                  |                                                                                                                                 |         | PCR3-075 |
| CHOICE Mode                                        | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8, A9,<br>A10 | TDD                                                                                                                             |         | PCR3-076 |
| - Downlink PDSCH information                       |                                                  | No data                                                                                                                         |         | PCR3-077 |
| Downlink HS-PDSCH Information                      | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8, A9,<br>A10 | Not Present                                                                                                                     | Rel-5   | PCR3-078 |
| Downlink information common for all radio<br>links | A1, A2, A3                                       |                                                                                                                                 |         | PCR3-079 |
| - Downlink DPCH info common for all RL             |                                                  | Maintain                                                                                                                        |         | PCR3-080 |
| - Timing indication                                |                                                  | Not Present                                                                                                                     |         | PCR3-081 |
| - CFN-targetSFN frame offset                       |                                                  |                                                                                                                                 |         | PCR3-082 |
| - Downlink DPCH power control<br>information       |                                                  |                                                                                                                                 |         | PCR3-083 |
| - CHOICE mode                                      |                                                  | TDD                                                                                                                             |         | PCR3-084 |
| - TPC Step Size                                    |                                                  | 1                                                                                                                               |         | PCR3-085 |
| - MAC-d HFN initial value                          |                                                  | Not Present                                                                                                                     |         | PCR3-086 |
| - CHOICE mode                                      |                                                  | TDD                                                                                                                             |         | PCR3-087 |
| - CHOICE mode                                      |                                                  | TDD                                                                                                                             |         | PCR3-088 |
| - CHOICE TDD option                                |                                                  | 3.84 Mcps TDD (No Data)                                                                                                         | Rel-4   | PCR3-089 |
| - Default DPCH Offset Value                        |                                                  | Not Present                                                                                                                     |         | PCR3-090 |
| Downlink information common for all radio<br>links | A4                                               |                                                                                                                                 |         | PCR3-091 |
| - Downlink DPCH info common for all RL             |                                                  | Initialise                                                                                                                      |         | PCR3-092 |
| - Timing indication                                |                                                  | Not Present                                                                                                                     |         | PCR3-093 |
| - CFN-targetSFN frame offset                       |                                                  |                                                                                                                                 |         | PCR3-094 |
| - Downlink DPCH power control<br>information       |                                                  |                                                                                                                                 |         | PCR3-095 |
| - CHOICE mode                                      |                                                  | TDD                                                                                                                             |         | PCR3-096 |
| - TPC Step Size                                    |                                                  | 1                                                                                                                               |         | PCR3-097 |
| - MAC-d HFN initial value                          |                                                  | Not Present                                                                                                                     |         | PCR3-098 |
| - CHOICE mode                                      |                                                  | TDD                                                                                                                             |         | PCR3-099 |
| - CHOICE mode                                      |                                                  | TDD                                                                                                                             |         | PCR3-100 |
| - CHOICE TDD option                                |                                                  | 3.84 Mcps TDD (No Data)                                                                                                         | Rel-4   | PCR3-101 |
| - Default DPCH Offset Value                        |                                                  |                                                                                                                                 |         | PCR3-102 |
| - CHOICE mode                                      |                                                  | TDD                                                                                                                             |         | PCR3-103 |

| Information Element                             | Condition               | Value/remark                                                                                                           | Version            | Index    |
|-------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| - Default DPCH Offset Value                     |                         | 0 Integer(0..7)                                                                                                        |                    | PCR3-104 |
| Downlink information common for all radio links | A5, A6, A7, A8, A9, A10 | Not Present                                                                                                            |                    | PCR3-105 |
| Downlink information per radio link list        | A1, A2, A3              |                                                                                                                        |                    | PCR3-106 |
| - Downlink information for each radio link      |                         |                                                                                                                        |                    | PCR3-107 |
| - Choice mode                                   |                         | TDD                                                                                                                    |                    | PCR3-108 |
| - Primary CCPCH info                            |                         |                                                                                                                        |                    | PCR3-109 |
| - Choice mode                                   |                         | TDD                                                                                                                    |                    | PCR3-110 |
| - Choice TDD Option                             |                         | 3.84 Mcps TDD                                                                                                          | Rel-4              | PCR3-111 |
| - CHOICE SyncCase                               |                         | Sync Case 1                                                                                                            |                    | PCR3-112 |
| - Timeslot                                      |                         | Reference clause 6.1.4 Default settings for cell 1                                                                     |                    | PCR3-113 |
| - Cell parameters ID                            |                         | Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127)                                               |                    | PCR3-114 |
| - SCTD indicator                                |                         | FALSE                                                                                                                  |                    | PCR3-115 |
| - Downlink DPCH info for each RL                |                         |                                                                                                                        |                    | PCR3-116 |
| - CHOICE mode                                   |                         | TDD                                                                                                                    |                    | PCR3-117 |
| - DL CCTrCh List                                |                         |                                                                                                                        |                    | PCR3-118 |
| - TFCS ID                                       |                         | 2 Integer(1.8)                                                                                                         |                    | PCR3-119 |
| - Time info                                     |                         |                                                                                                                        |                    | PCR3-120 |
| - Activation time                               |                         | Now                                                                                                                    |                    | PCR3-121 |
| - Duration                                      |                         | Infinite                                                                                                               |                    | PCR3-122 |
| - Common timeslot info                          |                         |                                                                                                                        |                    | PCR3-123 |
| - 2nd interleaving mode                         |                         | Default value is "Frame"                                                                                               |                    | PCR3-124 |
| - TFCI coding                                   |                         | Reference to TS34.108 clause 6 Parameter set                                                                           |                    | PCR3-125 |
| - Puncturing limit                              |                         | Reference to TS34.108 clause 6 Parameter set                                                                           |                    | PCR3-126 |
| - Repetition period                             |                         | 1                                                                                                                      |                    | PCR3-127 |
| - Repetition length                             |                         | NULL                                                                                                                   |                    | PCR3-128 |
| - Downlink DPCH timeslots and codes             |                         |                                                                                                                        |                    | PCR3-129 |
| - First individual timeslot info                |                         |                                                                                                                        |                    | PCR3-130 |
| - Timeslot number                               |                         |                                                                                                                        |                    | PCR3-131 |
| - CHOICE TDD option                             |                         | 3.84 Mcps TDD                                                                                                          | Rel-4              | PCR3-132 |
| - Timeslot number                               |                         | 4 OR 5 OR 6                                                                                                            |                    | PCR3-133 |
| - TFCI existence                                |                         | TRUE                                                                                                                   |                    | PCR3-134 |
| - Midamble shift and burst type                 |                         |                                                                                                                        |                    | PCR3-135 |
| - CHOICE TDD option                             |                         | 3.84 Mcps TDD                                                                                                          | Rel-4              | PCR3-136 |
| - CHOICE <i>Burst Type</i>                      |                         | Type 1                                                                                                                 |                    | PCR3-137 |
| - Midamble allocation mode                      |                         | Default midamble                                                                                                       |                    | PCR3-138 |
| - Midamble configuration                        |                         | 16                                                                                                                     |                    | PCR3-139 |
| - Midamble Shift                                |                         | Not Present                                                                                                            |                    | PCR3-140 |
| - CHOICE TDD option                             |                         | 3.84 Mcps TDD                                                                                                          | Rel-4              | PCR3-141 |
| - First timeslot channelisation codes           |                         | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. |                    | PCR3-142 |
| - CHOICE codes representation                   |                         | Bitmap                                                                                                                 |                    | PCR3-143 |
| - Channelisation codes bitmap                   |                         | Reference to TS34.108 clause 6.10 Parameter Set                                                                        |                    | PCR3-144 |
| - CHOICE more timeslots                         |                         | No more timeslots (No Data)                                                                                            |                    | PCR3-145 |
| - UL CCTrCH TPC List                            |                         | Default (is previous list or all defined UL CCTrCHs.)                                                                  |                    | PCR3-146 |
| - UL TPC TFCS Identity                          |                         |                                                                                                                        |                    | PCR3-147 |
| - TFCS ID                                       |                         | 1                                                                                                                      |                    | PCR3-148 |
| - Shared Channel Indicator                      |                         | FALSE                                                                                                                  |                    | PCR3-149 |
| - DL CCTrCH List to Remove                      |                         | Not present                                                                                                            |                    | PCR3-150 |
| - SCCPCH Information for FACH                   |                         | Not Present                                                                                                            | R99 and Rel-4 only | PCR3-151 |
| Downlink information per radio link list        | A4                      |                                                                                                                        |                    | PCR3-152 |
| - Downlink information for each radio link      |                         |                                                                                                                        |                    | PCR3-153 |
| - Choice mode                                   |                         | TDD                                                                                                                    |                    | PCR3-154 |
| - Primary CCPCH info                            |                         |                                                                                                                        |                    | PCR3-155 |
| - Choice mode                                   |                         | TDD                                                                                                                    |                    | PCR3-156 |
| - Choice TDD Option                             |                         | 3.84 Mcps TDD                                                                                                          | Rel-4              | PCR3-157 |
| - CHOICE SyncCase                               |                         | Sync Case 1                                                                                                            |                    | PCR3-158 |

| Information Element                                                                                                                                                                                        | Condition           | Value/remark                                                                                         | Version            | Index                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------|
| - Timeslot                                                                                                                                                                                                 |                     | Reference clause 6.1.4 Default settings for cell 1                                                   |                    | PCR3-159                                                                                     |
| - Cell parameters ID                                                                                                                                                                                       |                     | Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127)                             |                    | PCR3-160                                                                                     |
| - SCTD indicator                                                                                                                                                                                           |                     | FALSE                                                                                                |                    | PCR3-161                                                                                     |
| - Downlink DPCH info for each RL<br>- CHOICE mode<br>- DL CCTrCh List<br>- DL CCTrCH List to Remove<br>- SCCPCH Information for FACH                                                                       | A5                  | TDD<br>Not Present<br>Not present<br>Not Present                                                     | R99 and Rel-4 only | PCR3-162<br>PCR3-163<br>PCR3-164<br>PCR3-165<br>PCR3-166                                     |
| Downlink information per radio link list<br>- Downlink information for each radio link<br>- Choice mode<br>- Primary CCPCH info<br>- Choice mode<br>- Choice TDD Option<br>- CHOICE SyncCase<br>- Timeslot |                     | TDD<br><br>TDD<br>3.84 Mcps TDD<br>Sync Case 1<br>Reference clause 6.1.4 Default settings for cell 1 | Rel-4              | PCR3-167<br>PCR3-168<br>PCR3-169<br>PCR3-170<br>PCR3-171<br>PCR3-172<br>PCR3-173<br>PCR3-174 |
| - Cell parameters ID                                                                                                                                                                                       |                     | Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127)                             |                    | PCR3-175                                                                                     |
| - SCTD indicator                                                                                                                                                                                           |                     | FALSE                                                                                                |                    | PCR3-176                                                                                     |
| - Downlink DPCH info for each RL                                                                                                                                                                           |                     | Not Present                                                                                          |                    | PCR3-177                                                                                     |
| - SCCPCH Information for FACH                                                                                                                                                                              |                     | Not Present                                                                                          | R99 and Rel-4 only | PCR3-178                                                                                     |
| Downlink information per radio link list                                                                                                                                                                   | A6, A7, A8, A9, A10 | Not Present                                                                                          |                    | PCR3-179                                                                                     |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |
| A7        | This IE need for "Packet to URA_PCH from CELL_FACH in PS"   |
| A8        | This IE need for "Packet to URA_PCH from CELL_DCH in PS"    |
| A9        | This IE need for "Packet to CELL_PCH from CELL_FACH in PS"  |
| A10       | This IE need for "Packet to CELL_PCH from CELL_DCH in PS"   |

## Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM (1.28 Mcps TDD)

| Information Element            | Condition              | Value/remark                                                                                                                                                       | Version | Index    |
|--------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                   | A1, A2, A3, A4, A5, A6 |                                                                                                                                                                    |         | PCR1-001 |
| RRC transaction identifier     |                        | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | PCR1-002 |
| Integrity check info           |                        |                                                                                                                                                                    |         | PCR1-003 |
| - message authentication code  |                        | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | PCR1-004 |
| - RRC message sequence number  |                        | SS provides the value of this IE, from its internal counter.                                                                                                       |         | PCR1-005 |
| Integrity protection mode info |                        | Not Present                                                                                                                                                        |         | PCR1-006 |
| Ciphering mode info            |                        | Not Present                                                                                                                                                        |         | PCR1-007 |
| Activation time                | A1, A2, A3             | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |         | PCR1-008 |
| Activation time                | A4, A5, A6             | Now                                                                                                                                                                |         | PCR1-009 |
| Delay restriction flag         | A1,A2,A3,A4,A5,A6      | Not Present                                                                                                                                                        | Rel-6   | PCR1-010 |
| New U-RNTI                     |                        | Not Present                                                                                                                                                        |         | PCR1-011 |
| New C-RNTI                     | A1, A2, A3, A4         | Not Present                                                                                                                                                        |         | PCR1-012 |
| New C-RNTI                     | A5, A6                 | '1010 1010 1010 1010'                                                                                                                                              |         | PCR1-013 |
| New DSCH-RNTI                  | A1, A2, A3,            | Not Present                                                                                                                                                        |         | PCR1-014 |

| Information Element                                                 | Condition                               | Value/remark                             | Version | Index     |
|---------------------------------------------------------------------|-----------------------------------------|------------------------------------------|---------|-----------|
| New H-RNTI                                                          | A4, A5, A6<br>A1, A2, A3,<br>A4, A5, A6 | Not Present                              | Rel-5   | PCR1-015  |
| CHOICE <i>mode</i>                                                  |                                         | TDD                                      | Rel-7   | PCR1-016  |
| - New E-RNTI                                                        |                                         | Not Present                              | Rel-7   | PCR1-017  |
| RRC State indicator                                                 | A1, A2, A3,<br>A4                       | CELL_DCH                                 |         | PCR1-018  |
| RRC State indicator                                                 | A5, A6                                  | CELL_FACH                                |         | PCR1-019  |
| UTRAN DRX cycle length coefficient                                  | A1, A2, A3,<br>A4, A5, A6               | Not Present                              |         | PCR1-020  |
| CN information info                                                 |                                         | Not Present                              |         | PCR1-021  |
| URA identity                                                        |                                         | Not Present                              |         | PCR1-022  |
| RNC support for change of UE capability                             |                                         | Not Present                              | Rel-7   | PCR1-022a |
| Reconfiguration in response to requested<br>change of UE capability |                                         | Not Present                              | Rel-7   | PCR1-022b |
| Downlink counter synchronization info                               |                                         | Not Present                              |         | PCR1-023  |
| Frequency info                                                      | A1, A2, A3,<br>A4, A5                   |                                          |         | PCR1-024  |
| - Choice mode                                                       |                                         | TDD                                      |         | PCR1-028  |
| - UARFCN (Nt)                                                       |                                         | Reference to clause 5.1 Test frequencies |         | PCR1-029  |
| Frequency info                                                      | A6                                      | Not Present                              |         | PCR1-030  |
| Multi-frequency Info                                                |                                         | Not Present                              | Rel-7   | PCR1-030a |
| MIMO parameters                                                     |                                         | Not Present                              | Rel-8   | PCR1-025  |
| Control Channel DRX information                                     |                                         | Not Present                              | Rel-8   | PCR1-026  |
| SPS Information                                                     |                                         | Not Present                              | Rel-8   | PCR1-027  |
| MU-MIMO info                                                        |                                         | Not Present                              | Rel-10  | PCR1-030b |
| Maximum allowed UL TX power                                         |                                         | 33dBm                                    |         | PCR1-031  |
| CHOICE channel requirement                                          | A5, A6                                  | Not Present                              |         | PCR1-032  |
| CHOICE channel requirement                                          | A1, A2, A3,<br>A4                       | Uplink DPCH info                         |         | PCR1-033  |
| - Uplink DPCH power control info                                    |                                         |                                          |         | PCR1-034  |
| - CHOICE mode                                                       |                                         | TDD                                      |         | PCR1-035  |
| - UL target SIR                                                     |                                         | 25 dB                                    |         | PCR1-036  |
| - CHOICE UL OL PC info                                              |                                         | Individually Signalled                   |         | PCR1-038  |
| - CHOICE TDD option                                                 |                                         | 1.28 Mcps TDD                            |         | PCR1-039  |
| - TPC step size                                                     |                                         | 1                                        |         | PCR1-040  |
| - Primary CCPCH Tx Power                                            |                                         | 20 Integer(6..43)                        |         | PCR1-041  |
| - CHOICE mode                                                       |                                         | TDD                                      |         | PCR1-042  |
| - Uplink Timing Advance Control                                     |                                         |                                          |         | PCR1-043  |
| - CHOICE Timing Advance                                             |                                         | Enabled                                  |         | PCR1-044  |
| - CHOICE TDD option                                                 |                                         | 1.28 Mcps TDD                            |         | PCR1-045  |
| - Uplink synchronization parameters                                 |                                         |                                          |         | PCR1-046  |
| - Uplink synchronization step size                                  |                                         | 1                                        |         | PCR1-047  |
| - Uplink synchronization frequency                                  |                                         | 1                                        |         | PCR1-048  |
| - Synchronization parameters                                        |                                         |                                          |         | PCR1-049  |
| - SYNC_UL codes bitmap                                              |                                         | 01010101                                 |         | PCR1-050  |
| - FPACH info                                                        |                                         |                                          |         | PCR1-051  |
| - Timeslot number                                                   |                                         | 0                                        |         | PCR1-052  |
| - Channelisation code                                               |                                         | 16/15                                    |         | PCR1-053  |
| - Midamble Shift and burst type                                     |                                         |                                          |         | PCR1-054  |
| - CHOICE TDD option                                                 |                                         | 1.28 Mcps TDD                            |         | PCR1-055  |
| - Midamble Allocation Mode                                          |                                         | Default midamble                         |         | PCR1-056  |
| - Midamble configuration                                            |                                         | 4 (k=8)                                  |         | PCR1-057  |
| - WT                                                                |                                         | 4 Integer(1..4)                          |         | PCR1-058  |
| - PRXUpPCHdes                                                       |                                         | -80 dBm                                  |         | PCR1-059  |
| - SYNC_UL procedure                                                 |                                         |                                          |         | PCR1-060  |
| - Max SYNC_UL Transmissions                                         |                                         | 2                                        |         | PCR1-061  |
| - Power Ramp Step                                                   |                                         | 2                                        |         | PCR1-062  |
| - UL CCTrCH List                                                    |                                         |                                          |         | PCR1-063  |
| - TFCS ID                                                           |                                         | 1                                        |         | PCR1-064  |
| - UL Target SIR                                                     |                                         | 25 dB                                    |         | PCR1-065  |
| - Time info                                                         |                                         |                                          |         | PCR1-066  |
| - Activation time                                                   |                                         | (256+CFN-(CFN MOD 8 + 8))MOD 256         |         | PCR1-067  |
| - Duration                                                          |                                         | Infinite                                 |         | PCR1-068  |
| - Common timeslot info                                              |                                         |                                          |         | PCR1-069  |
| - 2 <sup>nd</sup> interleaving mode                                 |                                         | Default value is "Frame"                 |         | PCR1-070  |
| - TFCl coding                                                       |                                         | Reference to clause 6 Parameter set      |         | PCR1-071  |

| Information Element                             | Condition              | Value/remark                                                                                                  | Version | Index     |
|-------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------|---------|-----------|
| - Puncturing limit                              |                        | Reference to clause 6 Parameter set                                                                           |         | PCR1-072  |
| - Repetition period                             |                        | 1                                                                                                             |         | PCR1-073  |
| - Repetition length                             |                        | Null                                                                                                          |         | PCR1-074  |
| - Uplink DPCH timeslots and code                |                        |                                                                                                               |         | PCR1-075  |
| - Dynamic SF usage                              |                        | FALSE                                                                                                         |         | PCR1-076  |
| - First individual timeslot info                |                        |                                                                                                               |         | PCR1-077  |
| - Timeslot number                               |                        |                                                                                                               |         | PCR1-078  |
| - CHOICE TDD option                             |                        | 1.28 Mcps TDD                                                                                                 |         | PCR1-079  |
| - Timeslot number                               |                        | 1 OR 2 OR 3                                                                                                   |         | PCR1-080  |
| - TFCI existence                                |                        | TRUE                                                                                                          |         | PCR1-081  |
| - Midamble shift and burst type                 |                        |                                                                                                               |         | PCR1-082  |
| - CHOICE TDD option                             |                        | 1.28 Mcps TDD                                                                                                 |         | PCR1-083  |
| - Midamble allocation mode                      |                        | Default midamble                                                                                              |         | PCR1-084  |
| - Midamble configuration                        |                        | 8 (k=16)                                                                                                      |         | PCR1-085  |
| - Midamble Shift                                |                        | Not Present                                                                                                   |         | PCR1-086  |
| - CHOICE TDD option                             |                        | 1.28 Mcps TDD                                                                                                 |         | PCR1-087  |
| - Modulation                                    |                        | QPSK                                                                                                          |         | PCR1-088  |
| - SS-TPC Symbols                                |                        | 1                                                                                                             |         | PCR1-089  |
| - Additional TPC-SS Symbols                     |                        | Not present                                                                                                   |         | PCR1-090  |
| - First timeslot Code List                      |                        | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |         | PCR1-091  |
| - channelisation codes                          |                        | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.               |         | PCR1-092  |
| - CHOICE more timeslots                         |                        | No more timeslots                                                                                             |         | PCR1-093  |
| - UL CCTrCH List to Remove                      |                        | Not present                                                                                                   |         | PCR1-094  |
| E-DCH Info                                      |                        | Not Present                                                                                                   | Rel-7   | PCR1-095  |
| Multi-carrier E-DCH Info for LCR TDD            |                        | Not Present                                                                                                   | Rel-10  | PCR1-095a |
| CHOICE Mode                                     | A1, A2, A3, A4, A5, A6 | TDD                                                                                                           |         | PCR1-096  |
| Downlink HS-PDSCH Information                   | A1, A2, A3, A4, A5, A6 | Not Present                                                                                                   | Rel-5   | PCR1-097  |
| Downlink information common for all radio links | A1, A2, A3             |                                                                                                               |         | PCR1-098  |
| - Downlink DPCH info common for all RL          |                        |                                                                                                               |         | PCR1-099  |
| - Timing indication                             |                        | Maintain                                                                                                      |         | PCR1-100  |
| - CFN-targetSFN frame offset                    |                        | Not Present                                                                                                   |         | PCR1-101  |
| - Downlink DPCH power control information       |                        |                                                                                                               |         | PCR1-102  |
| - CHOICE mode                                   |                        | TDD                                                                                                           |         | PCR1-103  |
| - TPC Step Size                                 |                        | 1                                                                                                             |         | PCR1-104  |
| - MAC-d HFN initial value                       |                        | Not Present                                                                                                   |         | PCR1-105  |
| - CHOICE mode                                   |                        | TDD                                                                                                           |         | PCR1-106  |
| - CHOICE mode                                   |                        | TDD                                                                                                           |         | PCR1-107  |
| - CHOICE TDD option                             |                        | 1.28 Mcps TDD                                                                                                 |         | PCR1-108  |
| - TSTD indicator                                |                        | FALSE                                                                                                         |         | PCR1-109  |
| - Default DPCH Offset Value                     |                        | Not Present                                                                                                   |         | PCR1-110  |
| Downlink information common for all radio links | A4                     |                                                                                                               |         | PCR1-111  |
| - Downlink DPCH info common for all RL          |                        |                                                                                                               |         | PCR1-112  |
| - Timing indication                             |                        | Initialize                                                                                                    |         | PCR1-113  |
| - CFN-targetSFN frame offset                    |                        | Not Present                                                                                                   |         | PCR1-114  |
| - Downlink DPCH power control information       |                        |                                                                                                               |         | PCR1-115  |
| - CHOICE mode                                   |                        | TDD                                                                                                           |         | PCR1-116  |
| - TPC Step Size                                 |                        | 1                                                                                                             |         | PCR1-117  |
| - MAC-d HFN initial value                       |                        | Not Present                                                                                                   |         | PCR1-118  |
| - CHOICE mode                                   |                        | TDD                                                                                                           |         | PCR1-119  |
| - CHOICE mode                                   |                        | TDD                                                                                                           |         | PCR1-120  |
| - CHOICE TDD option                             |                        | 1.28 Mcps TDD                                                                                                 |         | PCR1-121  |
| - TSTD indicator                                |                        | FALSE                                                                                                         |         | PCR1-122  |
| - Default DPCH Offset Value                     |                        |                                                                                                               |         | PCR1-123  |
| - CHOICE mode                                   |                        | TDD                                                                                                           |         | PCR1-124  |
| - Default DPCH Offset Value                     |                        | 0 Integer(0..7)                                                                                               |         | PCR1-125  |
| Downlink information common for all radio links | A5, A6                 | Not Present                                                                                                   |         | PCR1-126  |

| Information Element                        | Condition      | Value/remark                                                                                                  | Version            | Index    |
|--------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Downlink information per radio link list   | A1, A2, A3, A4 |                                                                                                               |                    | PCR1-127 |
| - Downlink information for each radio link |                |                                                                                                               |                    | PCR1-128 |
| - Choice mode                              |                | TDD                                                                                                           |                    | PCR1-129 |
| - Primary CCPCH info                       |                |                                                                                                               |                    | PCR1-130 |
| - Choice mode                              |                | TDD                                                                                                           |                    | PCR1-131 |
| - Choice TDD Option                        |                | 1.28 Mcps TDD                                                                                                 |                    | PCR1-132 |
| - TSTD indicator                           |                | FALSE                                                                                                         |                    | PCR1-133 |
| - Cell parameters ID                       |                | Ref. to the Default setting in clause 6.1 (TDD)                                                               |                    |          |
|                                            |                | Integer(0..127)                                                                                               |                    | PCR1-134 |
| - SCTD indicator                           |                | FALSE                                                                                                         |                    | PCR1-135 |
| - Downlink DPCH info for each RL           |                |                                                                                                               |                    | PCR1-136 |
| - CHOICE mode                              |                | TDD                                                                                                           |                    | PCR1-137 |
| - DL CCTrCh List                           |                |                                                                                                               |                    | PCR1-138 |
| - TFCS ID                                  |                | 2 Integer(1.8)                                                                                                |                    | PCR1-139 |
| - Time info                                |                |                                                                                                               |                    | PCR1-140 |
| - Activation time                          |                | Now                                                                                                           |                    | PCR1-141 |
| - Duration                                 |                | Infinite                                                                                                      |                    | PCR1-142 |
| - Common timeslot info                     |                |                                                                                                               |                    | PCR1-143 |
| - 2nd interleaving mode                    |                | Default value is "Frame"                                                                                      |                    | PCR1-144 |
| - TFCI coding                              |                | Reference to clause 6 Parameter set                                                                           |                    | PCR1-145 |
| - Puncturing limit                         |                | Reference to clause 6 Parameter set                                                                           |                    | PCR1-146 |
| - Repetition period                        |                | 1                                                                                                             |                    | PCR1-147 |
| - Repetition length                        |                | NULL                                                                                                          |                    | PCR1-148 |
| - Downlink DPCH timeslots and codes        |                |                                                                                                               |                    | PCR1-149 |
| - First individual timeslot info           |                |                                                                                                               |                    | PCR1-150 |
| - Timeslot number                          |                |                                                                                                               |                    | PCR1-151 |
| - CHOICE TDD option                        |                | 1.28 Mcps TDD                                                                                                 |                    | PCR1-152 |
| - Timeslot number                          |                | 4 OR 5 OR 6                                                                                                   |                    | PCR1-153 |
| - TFCI existence                           |                | TRUE                                                                                                          |                    | PCR1-154 |
| - Midamble shift and burst type            |                |                                                                                                               |                    | PCR1-155 |
| - CHOICE TDD option                        |                | 1.28 Mcps TDD                                                                                                 |                    | PCR1-156 |
| - Midamble allocation mode                 |                | Default midamble                                                                                              |                    | PCR1-157 |
| - Midamble configuration                   |                | 8 (k=16)                                                                                                      |                    | PCR1-158 |
| - Midamble Shift                           |                | Not Present                                                                                                   |                    | PCR1-159 |
| - CHOICE TDD option                        |                | 1.28 Mcps TDD                                                                                                 |                    | PCR1-160 |
| - Modulation                               |                | QPSK                                                                                                          |                    | PCR1-161 |
| - SS-TPC Symbols                           |                | 1                                                                                                             |                    | PCR1-162 |
| - Additional TPC-SS Symbols                |                | Not present                                                                                                   |                    | PCR1-163 |
| - First timeslot channelisation codes      |                | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |                    |          |
|                                            |                |                                                                                                               |                    | PCR1-164 |
| - CHOICE codes representation              |                |                                                                                                               |                    | PCR1-165 |
| - Channelisation codes bitmap              |                | Reference to clause 6.11 Parameter Set                                                                        |                    | PCR1-166 |
| - CHOICE more timeslots                    |                | No more timeslots                                                                                             |                    | PCR1-167 |
| - UL CCTrCH TPC List                       |                | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.                                   |                    |          |
|                                            |                |                                                                                                               |                    | PCR1-168 |
| - UL TPC TFCS Identity                     |                |                                                                                                               |                    | PCR1-169 |
| - TFCS ID                                  |                | 1                                                                                                             |                    | PCR1-170 |
| - Shared Channel Indicator                 |                | FALSE                                                                                                         |                    | PCR1-171 |
| - DL CCTrCH List to Remove                 |                | Not present                                                                                                   |                    | PCR1-172 |
| - SCCPCH Information for FACH              |                | Not Present                                                                                                   | R99 and Rel-4 only | PCR1-173 |
| - E-AGCH Info                              |                | Not Present                                                                                                   | Rel-6              | PCR1-174 |
| - CHOICE mode                              |                | TDD                                                                                                           | Rel-7              | PCR1-175 |
| - E-HICH Information                       |                | Not Present                                                                                                   | Rel-7              | PCR1-176 |
| Downlink information per radio link list   | A5             |                                                                                                               |                    | PCR1-177 |
| - Downlink information for each radio link |                |                                                                                                               |                    | PCR1-178 |
| - Choice mode                              |                | TDD                                                                                                           |                    | PCR1-179 |
| - Primary CCPCH info                       |                |                                                                                                               |                    | PCR1-180 |
| - Choice mode                              |                | TDD                                                                                                           |                    | PCR1-181 |
| - Choice TDD Option                        |                | 1.28 Mcps TDD                                                                                                 |                    | PCR1-182 |
| - TSTD indicator                           |                | FALSE                                                                                                         |                    | PCR1-183 |
| - Cell parameters ID                       |                | Ref. to the Default setting in clause 6.1 (TDD)                                                               |                    | PCR1-184 |
|                                            |                | Integer(0..127)                                                                                               |                    |          |
| - SCTD indicator                           |                | FALSE                                                                                                         |                    | PCR1-185 |
| - Downlink DPCH info for each RL           |                | Not Present                                                                                                   |                    | PCR1-186 |

| Information Element                      | Condition | Value/remark | Version            | Index     |
|------------------------------------------|-----------|--------------|--------------------|-----------|
| - SCCPCH Information for FACH            | A6        | Not Present  | R99 and Rel-4 only | PCR1-187  |
| - E-AGCH Info                            |           | Not Present  | Rel-6              | PCR1-188  |
| - CHOICE <i>mode</i>                     |           | TDD          | Rel-7              | PCR1-189  |
| - E-HICH Information                     |           | Not Present  | Rel-7              | PCR1-190  |
| Downlink information per radio link list |           | Not Present  |                    | PCR1-191  |
| MBMS PL Service Restriction Information  |           | Not Present  | Rel-6              | PCR1-192  |
| CELL_DCH measurement occasion info LCR   |           | Not Present  | Rel-9              | PCR1-192a |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

## Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM (7.68 Mcps TDD)

| Information Element                   | Condition                               | Value/remark                                                                                                                                                       | Version | Index    |
|---------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                          | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 |                                                                                                                                                                    |         | PCR7-001 |
| RRC transaction identifier            |                                         | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | PCR7-002 |
| Integrity check info                  |                                         |                                                                                                                                                                    |         | PCR7-003 |
| - message authentication code         |                                         | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | PCR7-004 |
| - RRC message sequence number         |                                         | SS provides the value of this IE, from its internal counter.                                                                                                       |         | PCR7-005 |
| Integrity protection mode info        |                                         | Not Present                                                                                                                                                        |         | PCR7-006 |
| Ciphering mode info                   |                                         | Not Present                                                                                                                                                        |         | PCR7-007 |
| Activation time                       |                                         | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |         | PCR7-008 |
| Activation time                       |                                         | Not Present                                                                                                                                                        |         | PCR7-009 |
| New U-RNTI                            | A1, A2, A3, A4, A7, A8, A9, A10         | Not Present                                                                                                                                                        |         | PCR7-010 |
| New C-RNTI                            |                                         | Not Present                                                                                                                                                        |         | PCR7-011 |
| New C-RNTI                            |                                         | '1010 1010 1010 1010'                                                                                                                                              |         | PCR7-012 |
| New DSCH-RNTI                         | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                                                                        |         | PCR7-013 |
| New H-RNTI                            |                                         | Not Present                                                                                                                                                        | Rel-5   | PCR7-014 |
| RRC State indicator                   |                                         | CELL_DCH                                                                                                                                                           |         | PCR7-015 |
| RRC State indicator                   | A5, A6                                  | CELL_FACH                                                                                                                                                          |         | PCR7-016 |
| RRC State indicator                   | A7, A8                                  | URA_PCH                                                                                                                                                            |         | PCR7-017 |
| RRC State indicator                   | A9, A10                                 | CELL_PCH                                                                                                                                                           |         | PCR7-018 |
| UTRAN DRX cycle length coefficient    | A1, A2, A3, A4, A5, A6                  | Not Present                                                                                                                                                        |         | PCR7-019 |
| UTRAN DRX cycle length coefficient    |                                         | 3                                                                                                                                                                  |         | PCR7-020 |
| CN information info                   |                                         | Not Present                                                                                                                                                        |         | PCR7-021 |
| URA identity                          |                                         | Not Present                                                                                                                                                        |         | PCR7-022 |
| Downlink counter synchronisation info |                                         | Not Present                                                                                                                                                        |         | PCR7-023 |
| Frequency info                        | A1, A2, A3,                             |                                                                                                                                                                    |         | PCR7-024 |



| Information Element                              | Condition                     | Value/remark                                                                                                                    | Version | Index                            |
|--------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------|
| - Choice mode<br>- UARFCN (Nt)<br>Frequency info | A4, A5                        | TDD<br>Reference to clause 5.1 Test frequencies<br>Not Present                                                                  |         | PCR7-025<br>PCR7-026<br>PCR7-027 |
| Maximum allowed UL TX power                      | A6, A7, A8,<br>A9, A10        | 33dBm                                                                                                                           |         | PCR7-028                         |
| CHOICE channel requirement                       | A5, A6, A7,<br>A8, A9,<br>A10 | Not Present                                                                                                                     |         | PCR7-029                         |
| CHOICE channel requirement                       | A1, A2, A3,<br>A4             | Uplink DPCH info                                                                                                                |         | PCR7-030                         |
| - Uplink DPCH power control info                 |                               |                                                                                                                                 |         | PCR7-031                         |
| - CHOICE mode                                    |                               | TDD                                                                                                                             |         | PCR7-032                         |
| - UL target SIR                                  |                               | 6                                                                                                                               |         | PCR7-033                         |
| - CHOICE <i>UL OL PC info</i>                    |                               | Individually Signalled                                                                                                          |         | PCR7-034                         |
| - CHOICE TDD option                              |                               | 7.68 Mcps TDD                                                                                                                   | Rel-7   | PCR7-035                         |
| - Individual timeslot interference               |                               | Reference to TS34.108 clause 6.11<br>Parameter Set                                                                              |         | PCR7-036                         |
| - Individual timeslot interference               |                               | 7.68 Mcps TDD                                                                                                                   | Rel-7   | PCR7-037                         |
| - CHOICE TDD option                              |                               | As required by, Reference to TS34.108<br>clause 6.11 Parameter Set                                                              |         | PCR7-038                         |
| - Timeslot number                                |                               | As required by, Reference to TS34.108<br>clause 6.11 Parameter Set (if not<br>specified -60 dBm)                                |         | PCR7-039                         |
| - TDD UL interference                            |                               | 18 Integer(6..43) (-70 dBm Received if<br>pathloss not specified)                                                               |         | PCR7-040                         |
| - Primary CCPCH Tx Power                         |                               | TDD                                                                                                                             |         | PCR7-041                         |
| - CHOICE mode                                    |                               | Enabled                                                                                                                         |         | PCR7-042                         |
| - Uplink Timing Advance Control                  |                               | 7.68 Mcps TDD                                                                                                                   | Rel-7   | PCR7-043                         |
| - CHOICE Timing Advance                          |                               | 0                                                                                                                               | Rel-7   | PCR7-044                         |
| - CHOICE TDD option                              |                               | 1                                                                                                                               |         | PCR7-045                         |
| - Extended UL Timing Advance                     |                               | Real (-11 .. 20 by step of 0.5dB)                                                                                               |         | PCR7-046                         |
| - UL CCTrCH List                                 |                               | Reference to TS34.108 Parameter set.                                                                                            |         | PCR7-047                         |
| - TFCS ID                                        |                               | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                |         | PCR7-048                         |
| - UL Target SIR                                  |                               | Infinite                                                                                                                        |         | PCR7-049                         |
| - Time info                                      |                               | Default value is "Frame"                                                                                                        |         | PCR7-050                         |
| - Activation time                                |                               | Reference to TS34.108 clause 6                                                                                                  |         | PCR7-051                         |
| - Duration                                       |                               | Parameter set                                                                                                                   |         | PCR7-052                         |
| - Common timeslot info                           |                               | Reference to TS34.108 clause 6                                                                                                  |         | PCR7-053                         |
| - 2 <sup>nd</sup> interleaving mode              |                               | Parameter set                                                                                                                   |         | PCR7-054                         |
| - TFCI coding                                    |                               | Reference to TS34.108 clause 6                                                                                                  |         | PCR7-055                         |
| - Puncturing limit                               |                               | Parameter set                                                                                                                   |         | PCR7-056                         |
| - Repetition period                              |                               | 1                                                                                                                               |         | PCR7-057                         |
| - Repetition length                              |                               | Null                                                                                                                            |         | PCR7-058                         |
| - Uplink DPCH timeslots and code                 |                               | FALSE                                                                                                                           |         | PCR7-059                         |
| - Dynamic SF usage                               |                               |                                                                                                                                 |         | PCR7-060                         |
| - First individual timeslot info                 |                               |                                                                                                                                 |         | PCR7-061                         |
| - Timeslot number                                |                               |                                                                                                                                 |         | PCR7-062                         |
| - CHOICE TDD option                              |                               | 7.68 Mcps TDD                                                                                                                   | Rel-7   | PCR7-063                         |
| - Timeslot number                                |                               | 1 OR 2 OR 3                                                                                                                     |         | PCR7-064                         |
| - TFCI existence                                 |                               | TRUE                                                                                                                            |         | PCR7-065                         |
| - Midamble shift and burst type                  |                               |                                                                                                                                 |         | PCR7-066                         |
| - CHOICE TDD option                              |                               | 7.68 Mcps TDD                                                                                                                   | Rel-7   | PCR7-067                         |
| - Midamble allocation mode                       |                               | Default midamble                                                                                                                |         | PCR7-068                         |
| - Midamble configuration                         |                               | 8                                                                                                                               |         | PCR7-069                         |
| - Midamble Shift                                 |                               | Not Present                                                                                                                     |         | PCR7-070                         |
| - CHOICE TDD option                              |                               | 7.68 Mcps TDD (No Data)                                                                                                         | Rel-7   | PCR7-071                         |
| - First timeslot Code List                       |                               | Repeated (1,2) for each channelisation<br>code assigned in the slot to meet the<br>needs of TS34.108 clause 6 Parameter<br>Set. |         | PCR7-072                         |
| - channelisation codes                           |                               | (SF/ i) where i denotes an unassigned<br>code matching the SF specified in<br>TS34.108 clause 6 Parameter Set.                  |         | PCR7-073                         |

| Information Element                             | Condition                                        | Value/remark                                                             | Version | Index    |
|-------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------|---------|----------|
| - CHOICE more timeslots                         |                                                  | No more timeslots (No Data)                                              |         | PCR7-074 |
| - UL CCTrCh List to Remove                      |                                                  | Not present                                                              |         | PCR7-075 |
| Downlink radio resources                        |                                                  |                                                                          |         | PCR7-076 |
| CHOICE Mode                                     | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8, A9,<br>A10 | TDD                                                                      |         | PCR7-077 |
| - Downlink PDSCH information                    |                                                  | No data                                                                  |         | PCR7-078 |
| Downlink HS-PDSCH Information                   | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8, A9,<br>A10 | Not Present                                                              | Rel-5   | PCR7-079 |
| Downlink information common for all radio links | A1, A2, A3                                       |                                                                          |         | PCR7-080 |
| - Downlink DPCH info common for all RL          |                                                  |                                                                          |         | PCR7-081 |
| - Timing indication                             |                                                  | Maintain                                                                 |         | PCR7-082 |
| - CFN-targetSFN frame offset                    |                                                  | Not Present                                                              |         | PCR7-083 |
| - Downlink DPCH power control information       |                                                  |                                                                          |         | PCR7-084 |
| - CHOICE mode                                   |                                                  | TDD                                                                      |         | PCR7-085 |
| - TPC Step Size                                 |                                                  | 1                                                                        |         | PCR7-086 |
| - MAC-d HFN initial value                       |                                                  | Not Present                                                              |         | PCR7-087 |
| - CHOICE mode                                   |                                                  | TDD                                                                      |         | PCR7-088 |
| - CHOICE mode                                   |                                                  | TDD                                                                      |         | PCR7-089 |
| - CHOICE TDD option                             |                                                  | 7.68 Mcps TDD (No Data)                                                  | Rel-7   | PCR7-090 |
| - Default DPCH Offset Value                     |                                                  | Not Present                                                              |         | PCR7-091 |
| Downlink information common for all radio links | A4                                               |                                                                          |         | PCR7-092 |
| - Downlink DPCH info common for all RL          |                                                  |                                                                          |         | PCR7-093 |
| - Timing indication                             |                                                  | Initialise                                                               |         | PCR7-094 |
| - CFN-targetSFN frame offset                    |                                                  | Not Present                                                              |         | PCR7-095 |
| - Downlink DPCH power control information       |                                                  |                                                                          |         | PCR7-096 |
| - CHOICE mode                                   |                                                  | TDD                                                                      |         | PCR7-097 |
| - TPC Step Size                                 |                                                  | 1                                                                        |         | PCR7-098 |
| - MAC-d HFN initial value                       |                                                  | Not Present                                                              |         | PCR7-099 |
| - CHOICE mode                                   |                                                  | TDD                                                                      |         | PCR7-100 |
| - CHOICE mode                                   |                                                  | TDD                                                                      |         | PCR7-101 |
| - CHOICE TDD option                             |                                                  | 7.68 Mcps TDD (No Data)                                                  | Rel-7   | PCR7-102 |
| - Default DPCH Offset Value                     |                                                  |                                                                          |         | PCR7-103 |
| - CHOICE mode                                   |                                                  | TDD                                                                      |         | PCR7-104 |
| - Default DPCH Offset Value                     |                                                  | 0 Integer(0..7)                                                          |         | PCR7-105 |
| Downlink information common for all radio links | A5, A6, A7,<br>A8, A9,<br>A10                    | Not Present                                                              |         | PCR7-106 |
| Downlink information per radio link list        | A1, A2,A3                                        |                                                                          |         | PCR7-107 |
| - Downlink information for each radio link      |                                                  |                                                                          |         | PCR7-108 |
| - Choice mode                                   |                                                  | TDD                                                                      |         | PCR7-109 |
| - Primary CCPCH info                            |                                                  |                                                                          |         | PCR7-110 |
| - Choice mode                                   |                                                  | TDD                                                                      |         | PCR7-111 |
| - Choice TDD Option                             |                                                  | 7.68 Mcps TDD                                                            | Rel-7   | PCR7-112 |
| - CHOICE SyncCase                               |                                                  | Sync Case 1                                                              |         | PCR7-113 |
| - Timeslot                                      |                                                  | Reference clause 6.1.4 Default settings for cell 1                       |         | PCR7-114 |
| - Cell parameters ID                            |                                                  | Ref. to the Default setting in TS34.108 clause 6.1 (TDD) Integer(0..127) |         | PCR7-115 |
| - SCTD indicator                                |                                                  | FALSE                                                                    |         | PCR7-116 |
| - Downlink DPCH info for each RL                |                                                  |                                                                          |         | PCR7-117 |
| - CHOICE mode                                   |                                                  | 7.68 TDD                                                                 | Rel-7   | PCR7-118 |
| - DL CCTrCh List                                |                                                  |                                                                          |         | PCR7-119 |
| - TFCS ID                                       |                                                  | 2 Integer(1.8)                                                           |         | PCR7-120 |
| - Time info                                     |                                                  |                                                                          |         | PCR7-121 |
| - Activation time                               |                                                  | Now                                                                      |         | PCR7-122 |
| - Duration                                      |                                                  | Infinite                                                                 |         | PCR7-123 |
| - Common timeslot info                          |                                                  |                                                                          |         | PCR7-124 |
| - 2nd interleaving mode                         |                                                  | Default value is "Frame"                                                 |         | PCR7-125 |
| - TFCI coding                                   |                                                  | Reference to TS34.108 clause 6                                           |         | PCR7-126 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Condition | Value/remark                                                                                                                                                                                                                                                                                                                                           | Version               | Index                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Puncturing limit</li> <li>- Repetition period</li> <li>- Repetition length</li> <li>- Downlink DPCH timeslots and codes</li> </ul> VHCR                                                                                                                                                                                                                                                                                                                                                           |           | Parameter set<br>Reference to TS34.108 clause 6<br>Parameter set<br>1<br>NULL                                                                                                                                                                                                                                                                          | Rel-7                 | PCR7-127<br>PCR7-128<br>PCR7-129<br>PCR7-130                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 7.68 Mcps TDD<br>4 OR 5 OR 6<br>TRUE                                                                                                                                                                                                                                                                                                                   | Rel-7                 | PCR7-131<br>PCR7-132<br>PCR7-133<br>PCR7-134<br>PCR7-135<br>PCR7-136                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 7.68 Mcps TDD                                                                                                                                                                                                                                                                                                                                          | Rel-7                 | PCR7-137                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Type 1                                                                                                                                                                                                                                                                                                                                                 |                       | PCR7-138                                                                                     |
| <ul style="list-style-type: none"> <li>- Midamble allocation mode</li> <li>- Midamble configuration</li> <li>- Midamble Shift</li> <li>- CHOICE TDD option</li> <li>- First timeslot channelisation codes</li> </ul> VHCR                                                                                                                                                                                                                                                                                                                  | A4        | Default midamble<br>8<br>Not Present<br>7.68 Mcps TDD<br>Repeated (1,2) for each channelisation<br>code assigned in the slot to meet the<br>needs of TS34.108 clause 6.11<br>Parameter Set.<br>Bitmap<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>No more timeslots (No Data)<br>Default (is previous list or all defined UL<br>CCTrCHs.) | Rel-7                 | PCR7-139<br>PCR7-140<br>PCR7-141<br>PCR7-142<br>PCR7-143                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | CHOICE codes representation<br>Channelisation codes bitmap                                                                                                                                                                                                                                                                                             |                       | PCR7-144<br>PCR7-145                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | CHOICE more timeslots<br>UL CCTrCH TPC List                                                                                                                                                                                                                                                                                                            |                       | PCR7-146<br>PCR7-147                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | UL TPC TFCS Identity<br>TFCS ID<br>Shared Channel Indicator                                                                                                                                                                                                                                                                                            |                       | PCR7-148<br>PCR7-149<br>PCR7-150                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | DL CCTrCH List to Remove<br>SCCPCH Information for FACH                                                                                                                                                                                                                                                                                                | R99 and<br>Rel-4 only | PCR7-151<br>PCR7-152                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Downlink information per radio link list<br>- Downlink information for each radio link<br>- Choice mode<br>- Primary CCPCH info<br>- Choice mode<br>- Choice TDD Option<br>- CHOICE SyncCase<br>- Timeslot                                                                                                                                             | Rel-7                 | PCR7-153<br>PCR7-154<br>PCR7-155<br>PCR7-156<br>PCR7-157<br>PCR7-158<br>PCR7-159<br>PCR7-160 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Cell parameters ID                                                                                                                                                                                                                                                                                                                                     |                       | PCR7-161                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | SCTD indicator                                                                                                                                                                                                                                                                                                                                         |                       | PCR7-162                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | TDD<br>Not Present<br>Not present<br>Not Present                                                                                                                                                                                                                                                                                                       | R99 and<br>Rel-4 only | PCR7-163<br>PCR7-164<br>PCR7-165<br>PCR7-166<br>PCR7-167                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | TDD<br>TDD<br>7.68 Mcps TDD<br>Sync Case 1<br>Reference clause 6.1.4 Default settings<br>for cell 1<br>Ref. to the Default setting in TS34.108<br>clause 6.1 (TDD) Integer(0..127)<br>FALSE                                                                                                                                                            | Rel-7                 | PCR7-168<br>PCR7-169<br>PCR7-170<br>PCR7-171<br>PCR7-172<br>PCR7-173<br>PCR7-174<br>PCR7-175 |
| <ul style="list-style-type: none"> <li>- Downlink DPCH info for each RL</li> <li>- CHOICE mode</li> <li>- DL CCTrCh List</li> <li>- DL CCTrCH List to Remove</li> <li>- SCCPCH Information for FACH</li> </ul> Downlink information per radio link list<br>- Downlink information for each radio link<br>- Choice mode<br>- Primary CCPCH info<br>- Choice mode<br>- Choice TDD Option<br>- CHOICE SyncCase<br>- Timeslot<br>- Cell parameters ID<br>- SCTD indicator<br>- Downlink DPCH info for each RL<br>- SCCPCH Information for FACH | A5        | TDD<br>Not Present<br>Not present<br>Not Present                                                                                                                                                                                                                                                                                                       | R99 and<br>Rel-4 only | PCR7-163<br>PCR7-164<br>PCR7-165<br>PCR7-166<br>PCR7-167                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | TDD<br>TDD<br>7.68 Mcps TDD<br>Sync Case 1<br>Reference clause 6.1.4 Default settings<br>for cell 1<br>Ref. to the Default setting in TS34.108<br>clause 6.1 (TDD) Integer(0..127)<br>FALSE                                                                                                                                                            | Rel-7                 | PCR7-168<br>PCR7-169<br>PCR7-170<br>PCR7-171<br>PCR7-172<br>PCR7-173<br>PCR7-174<br>PCR7-175 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not Present<br>Not Present                                                                                                                                                                                                                                                                                                                             | R99 and               | PCR7-176<br>PCR7-177<br>PCR7-178<br>PCR7-179                                                 |

| Information Element                      | Condition           | Value/remark | Version    | Index    |
|------------------------------------------|---------------------|--------------|------------|----------|
| Downlink information per radio link list | A6, A7, A8, A9, A10 | Not Present  | Rel-4 only | PCR7-180 |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |
| A7        | This IE need for "Packet to URA_PCH from CELL_FACH in PS"   |
| A8        | This IE need for "Packet to URA_PCH from CELL_DCH in PS"    |
| A9        | This IE need for "Packet to CELL_PCH from CELL_FACH in PS"  |
| A10       | This IE need for "Packet to CELL_PCH from CELL_DCH in PS"   |

Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM (3.84 Mcps TDD)

| Information Element                                   | Value/remark                                                                                                                                                                                         | Version |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type<br>RRC transaction identifier            | Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message                                                                                | Rel-4   |
| Integrity check info<br>- Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number                         | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Uplink integrity protection activation info           | Not checked                                                                                                                                                                                          |         |
| CHOICE mode                                           | TDD                                                                                                                                                                                                  |         |
| - CHOICE TDD option                                   | 3.84 Mcps TDD                                                                                                                                                                                        |         |
| - Uplink Timing Advance                               | 0                                                                                                                                                                                                    |         |
| COUNT-C activation time                               | Not checked                                                                                                                                                                                          |         |
| Radio bearer uplink ciphering activation time info    | Not checked                                                                                                                                                                                          |         |
| Uplink counter synchronisation info                   | Not checked                                                                                                                                                                                          |         |

Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM (1.28 Mcps TDD)

| Information Element                                   | Value/remark                                                                                                                                                                                         | Version |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type<br>RRC transaction identifier            | Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message                                                                                | Rel-4   |
| Integrity check info<br>- Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number                         | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Uplink integrity protection activation info           | Not checked                                                                                                                                                                                          |         |
| CHOICE mode                                           | TDD                                                                                                                                                                                                  |         |
| - CHOICE TDD option                                   | 1.28 Mcps TDD                                                                                                                                                                                        |         |
| COUNT-C activation time                               | Not checked                                                                                                                                                                                          |         |
| Radio bearer uplink ciphering activation time info    | Not checked                                                                                                                                                                                          |         |
| Uplink counter synchronization info                   | Not checked                                                                                                                                                                                          |         |

## Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM (7.68 Mcps TDD)

| Information Element                                | Value/remark                                                                                                                                                                                         | Version |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                       |                                                                                                                                                                                                      |         |
| RRC transaction identifier                         | Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message                                                                                |         |
| Integrity check info                               |                                                                                                                                                                                                      |         |
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Uplink integrity protection activation info        | Not checked                                                                                                                                                                                          |         |
| CHOICE mode                                        | TDD                                                                                                                                                                                                  |         |
| - CHOICE TDD option                                | 7.68 Mcps TDD                                                                                                                                                                                        | Rel-7   |
| - Extended Uplink Timing Advance                   | 0                                                                                                                                                                                                    | Rel-7   |
| COUNT-C activation time                            | Not checked                                                                                                                                                                                          |         |
| Radio bearer uplink ciphering activation time info | Not checked                                                                                                                                                                                          |         |
| Uplink counter synchronisation info                | Not checked                                                                                                                                                                                          |         |

## Contents of PHYSICAL CHANNEL RECONFIGURATION FAILURE message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                                                      |
| RRC transaction identifier    | Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message.                                                                              |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                 | Checked to see if it meets test requirement                                                                                                                                                          |

## Contents of RADIO BEARER RECONFIGURATION message: AM or UM (3.84 Mcps TDD)

| Information Element            | Condition              | Value/remark                                                                                                                                                       | Version | Index              |
|--------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------|
| Message Type                   | A1,A2,A3, A4,A5,A6     |                                                                                                                                                                    |         | RBR3-0:            |
| <b>UE Information elements</b> |                        |                                                                                                                                                                    |         |                    |
| RRC transaction identifier     |                        | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBR3-0:<br>RBR3-0: |
| Integrity check info           |                        |                                                                                                                                                                    |         |                    |
| - message authentication code  |                        | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | RBR3-0:<br>RBR3-0: |
| - RRC message sequence number  |                        | SS provides the value of this IE, from its internal counter.                                                                                                       |         | RBR3-0:            |
| Integrity protection mode info |                        | Not Present                                                                                                                                                        |         | RBR3-0:            |
| Ciphering mode info            |                        | Not Present                                                                                                                                                        |         | RBR3-0:            |
| Activation time                | A1,A2,A3               | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |         | RBR3-0:            |
| Activation time                | A4, A5,A6              | Not Present                                                                                                                                                        |         | RBR3-0:            |
| New U-RNTI                     |                        | MD Integer(0..255) default is 'now'                                                                                                                                |         | RBR3-0:            |
|                                |                        | Not Present                                                                                                                                                        |         |                    |
| New C-RNTI                     | A1, A2, A3, A4,        | Not Present                                                                                                                                                        |         | RBR3-0:            |
| New C-RNTI                     | A5, A6                 | '1010 1010 1010 1010'                                                                                                                                              |         | RBR3-0:            |
| New DSCH-RNTI                  | A1, A2, A3, A4, A5, A6 | Not Present                                                                                                                                                        |         | RBR3-0:            |
| New H-RNTI                     | A1, A2, A3,            | Not Present                                                                                                                                                        | Rel-5   | RBR3-0:            |

| Information Element                 | Condition             | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Version | Index   |
|-------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| RRC State indicator                 | A4, A5, A6            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| RRC State indicator                 | A1, A2, A3, A4        | CELL_DCH<br>Indicates to a UE the RRC state to be entered.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         | RBR3-07 |
| RRC State indicator                 | A5, A6                | CELL_FACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         | RBR3-07 |
| UTRAN DRX cycle length coefficient  | A1,A2,A3,<br>A4,A5,A6 | Not Present<br>A coefficient in the formula to count the paging occasions to be used by a specific UE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         | RBR3-07 |
| CN information elements             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| CN information info                 |                       | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         | RBR3-07 |
| UTRAN mobility information elements |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| URA identity                        |                       | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         | RBR3-07 |
| CHOICE specification mode           |                       | [FFS]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rel-5   | RBR3-07 |
| RB information elements             |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| RAB information to reconfigure list |                       | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         | RBR3-07 |
| RB information to reconfigure list  | A1                    | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".<br>(UM DCCH for RRC)<br>1<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>(AM DCCH for RRC)<br>2<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>(AM DCCH for NAS_DT High priority)<br>3<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>(AM DCCH for NAS_DT Low priority)<br>4<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>(TM DTCH)<br>10<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>Not Present |         | RBR3-07 |
| - RB information to reconfigure     |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB identity                       |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - PDCP info                         |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - PDCP SN info                      |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RLC info                          |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB mapping info                   |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB stop/continue                  |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB information to reconfigure     |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB identity                       |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - PDCP info                         |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - PDCP SN info                      |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RLC info                          |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB mapping info                   |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB stop/continue                  |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB information to reconfigure     |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB identity                       |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - PDCP info                         |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - PDCP SN info                      |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RLC info                          |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB mapping info                   |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB stop/continue                  |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB information to reconfigure     |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB identity                       |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - PDCP info                         |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - PDCP SN info                      |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RLC info                          |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB mapping info                   |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB stop/continue                  |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB information to reconfigure     |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB identity                       |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - PDCP info                         |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - PDCP SN info                      |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RLC info                          |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB mapping info                   |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB stop/continue                  |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| RB information to reconfigure list  | A2                    | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".<br>(UM DCCH for RRC)<br>1<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>(AM DCCH for RRC)<br>2<br>Not Present                                                                                                                                                                                                                                                                                                                                                                                                      |         | RBR3-07 |
| - RB information to reconfigure     |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB identity                       |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - PDCP info                         |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - PDCP SN info                      |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RLC info                          |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB mapping info                   |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB stop/continue                  |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB information to reconfigure     |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - RB identity                       |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |
| - PDCP info                         |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | RBR3-07 |

| Information Element                  | Condition    | Value/remark                                                                                       | Version | Index   |
|--------------------------------------|--------------|----------------------------------------------------------------------------------------------------|---------|---------|
| - PDCP SN info                       |              | Not Present                                                                                        |         | RBR3-07 |
| - RLC info                           |              | Not Present                                                                                        |         | RBR3-07 |
| - RB mapping info                    |              | Not Present                                                                                        |         | RBR3-07 |
| - RB stop/continue                   |              | Not Present                                                                                        |         | RBR3-07 |
| - RB information to reconfigure      |              | (AM DCCH for NAS_DT High priority)                                                                 |         | RBR3-07 |
| - RB identity                        |              | 3                                                                                                  |         | RBR3-07 |
| - PDCP info                          |              | Not Present                                                                                        |         | RBR3-07 |
| - PDCP SN info                       |              | Not Present                                                                                        |         | RBR3-08 |
| - RLC info                           |              | Not Present                                                                                        |         | RBR3-08 |
| - RB mapping info                    |              | Not Present                                                                                        |         | RBR3-08 |
| - RB stop/continue                   |              | Not Present                                                                                        |         | RBR3-08 |
| - RB information to reconfigure      |              | (AM DCCH for NAS_DT Low priority)                                                                  |         | RBR3-08 |
| - RB identity                        |              | 4                                                                                                  |         | RBR3-08 |
| - PDCP info                          |              | Not Present                                                                                        |         | RBR3-08 |
| - PDCP SN info                       |              | Not Present                                                                                        |         | RBR3-08 |
| - RLC info                           |              | Not Present                                                                                        |         | RBR3-08 |
| - RB mapping info                    |              | Not Present                                                                                        |         | RBR3-08 |
| - RB stop/continue                   |              | Not Present                                                                                        |         | RBR3-09 |
| - RB information to reconfigure      |              | (TM DTCH)                                                                                          |         | RBR3-09 |
| - RB identity                        |              | 10                                                                                                 |         | RBR3-09 |
| - PDCP info                          |              | Not Present                                                                                        |         | RBR3-09 |
| - PDCP SN info                       |              | Not Present                                                                                        |         | RBR3-09 |
| - RLC info                           |              | Not Present                                                                                        |         | RBR3-09 |
| - RB mapping info                    |              | Not Present                                                                                        |         | RBR3-09 |
| - RB stop/continue                   |              | Not Present                                                                                        |         | RBR3-09 |
| - RB information to reconfigure      |              | (TM DTCH)                                                                                          |         | RBR3-09 |
| - RB identity                        |              | 11                                                                                                 |         | RBR3-09 |
| - PDCP info                          |              | Not Present                                                                                        |         | RBR3-10 |
| - PDCP SN info                       |              | Not Present                                                                                        |         | RBR3-10 |
| - RLC info                           |              | Not Present                                                                                        |         | RBR3-10 |
| - RB mapping info                    |              | Not Present                                                                                        |         | RBR3-10 |
| - RB stop/continue                   |              | Not Present                                                                                        |         | RBR3-10 |
| - RB information to reconfigure      |              | (TM DTCH)                                                                                          |         | RBR3-10 |
|                                      |              | (This IE is needed for 12.2 kbps and 10.2 kbps)                                                    |         |         |
| - RB identity                        |              | 12                                                                                                 |         | RBR3-10 |
| - PDCP info                          |              | Not Present                                                                                        |         | RBR3-10 |
| - PDCP SN info                       |              | Not Present                                                                                        |         | RBR3-10 |
| - RLC info                           |              | Not Present                                                                                        |         | RBR3-10 |
| - RB mapping info                    |              | Not Present                                                                                        |         | RBR3-11 |
| - RB stop/continue                   |              | Not Present                                                                                        |         | RBR3-11 |
| - RB information to reconfigure list | A3,A4,A5, A6 | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". |         | RBR3-11 |
|                                      |              | (UM DCCH for RRC)                                                                                  |         |         |
| - RB information to reconfigure      |              | 1                                                                                                  |         | RBR3-11 |
| - RB identity                        |              | Not Present                                                                                        |         | RBR3-11 |
| - PDCP info                          |              | Not Present                                                                                        |         | RBR3-11 |
| - PDCP SN info                       |              | Not Present                                                                                        |         | RBR3-11 |
| - RLC info                           |              | Not Present                                                                                        |         | RBR3-11 |
| - RB mapping info                    |              | Not Present                                                                                        |         | RBR3-11 |
| - RB stop/continue                   |              | Not Present                                                                                        |         | RBR3-11 |
| - RB information to reconfigure      |              | (AM DCCH for RRC)                                                                                  |         | RBR3-11 |
| - RB identity                        |              | 2                                                                                                  |         | RBR3-11 |
| - PDCP info                          |              | Not Present                                                                                        |         | RBR3-11 |
| - PDCP SN info                       |              | Not Present                                                                                        |         | RBR3-11 |
| - RLC info                           |              | Not Present                                                                                        |         | RBR3-11 |
| - RB mapping info                    |              | Not Present                                                                                        |         | RBR3-11 |
| - RB stop/continue                   |              | Not Present                                                                                        |         | RBR3-11 |
| - RB information to reconfigure      |              | (AM DCCH for NAS_DT High priority)                                                                 |         | RBR3-11 |
| - RB identity                        |              | 3                                                                                                  |         | RBR3-11 |
| - PDCP info                          |              | Not Present                                                                                        |         | RBR3-11 |
| - PDCP SN info                       |              | Not Present                                                                                        |         | RBR3-11 |
| - RLC info                           |              | Not Present                                                                                        |         | RBR3-11 |
| - RB mapping info                    |              | Not Present                                                                                        |         | RBR3-11 |
| - RB stop/continue                   |              | Not Present                                                                                        |         | RBR3-11 |
| - RB information to reconfigure      |              | (AM DCCH for NAS_DT Low priority)                                                                  |         | RBR3-11 |
| - RB identity                        |              | 4                                                                                                  |         | RBR3-11 |

| Information Element                                                                                                                                                                                                                  | Condition                  | Value/remark                                                                                                                                                          | Version | Index                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------|
| - PDCP info<br>- PDCP SN info<br>- RLC info<br>- RB mapping info<br>- RB stop/continue<br>- RB information to reconfigure<br>- RB identity<br>- PDCP info<br>- PDCP SN info<br>- RLC info<br>- RB mapping info<br>- RB stop/continue |                            | Not Present<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>(AM DTCH)<br>20<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>Not Present |         | RBR3-1f<br>RBR3-1f<br>RBR3-1f<br>RBR3-1f<br>RBR3-1d<br>RBR3-1d<br>RBR3-1d<br>RBR3-1d<br>RBR3-1d<br>RBR3-1d<br>RBR3-1d |
| RB information to be affected                                                                                                                                                                                                        | A1, A2,<br>A3,A4,A5,<br>A6 | Not Present                                                                                                                                                           |         | RBR3-1d                                                                                                               |
| <b>TrCH Information Elements</b>                                                                                                                                                                                                     |                            |                                                                                                                                                                       |         | RBR3-1d                                                                                                               |
| <b>Uplink transport channels</b>                                                                                                                                                                                                     |                            |                                                                                                                                                                       |         | RBR3-1f                                                                                                               |
| UL Transport channel information for all transport channels                                                                                                                                                                          | A1, A2,<br>A5,A6           | Not Present                                                                                                                                                           |         | RBR3-1f                                                                                                               |
| UL Transport channel information for all transport channels<br>- PRACH TFCS<br>- CHOICE mode<br>- Individual UL CCTrCH information                                                                                                   | A3, A4                     | Not Present<br>TDD                                                                                                                                                    |         | RBR3-1f<br>RBR3-1f<br>RBR3-1f                                                                                         |
| - UL TFCS Identity                                                                                                                                                                                                                   |                            |                                                                                                                                                                       |         | RBR3-1f                                                                                                               |
| - TFCS ID                                                                                                                                                                                                                            |                            | 1                                                                                                                                                                     |         | RBR3-1f                                                                                                               |
| - Shared Channel Indicator                                                                                                                                                                                                           |                            | FALSE                                                                                                                                                                 |         | RBR3-1f                                                                                                               |
| - UL TFCS                                                                                                                                                                                                                            |                            |                                                                                                                                                                       |         | RBR3-1f                                                                                                               |
| - CHOICE <i>TFCI signalling</i>                                                                                                                                                                                                      |                            | Normal<br>(another option "split" only for FDD)                                                                                                                       |         | RBR3-1f                                                                                                               |
| - TFCI Field 1 Information                                                                                                                                                                                                           |                            |                                                                                                                                                                       |         | RBR3-1f                                                                                                               |
| - CHOICE <i>TFCS representation</i>                                                                                                                                                                                                  |                            | Complete reconfiguration                                                                                                                                              |         | RBR3-1f                                                                                                               |
| information<br>- TFCS complete reconfiguration<br>- CHOICE <i>CTFC Size</i>                                                                                                                                                          |                            | Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.10.3.4 Parameter Set.                                                     |         | RBR3-1f                                                                                                               |
| - CTFC information                                                                                                                                                                                                                   |                            | This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.3.4 Parameter Set                                                                           |         | RBR3-1f                                                                                                               |
| - CTFC                                                                                                                                                                                                                               |                            | Reference to TS34.108 clause 6.10.3.4 Parameter Set                                                                                                                   |         | RBR3-1f                                                                                                               |
| - Power offset information<br>- CHOICE Gain Factors                                                                                                                                                                                  |                            | Computed Gain Factors<br>(The last TFC is set to Signalled Gain Factors)                                                                                              |         | RBR3-1f<br>RBR3-1f                                                                                                    |
| - Reference TFC ID<br>- CHOICE Gain Factors                                                                                                                                                                                          |                            | 0 Integer(0.. 3)<br>Signalled Gain Factors<br>(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)                                                 |         | RBR3-1f<br>RBR3-1f                                                                                                    |
| - CHOICE <i>mode</i><br>- Gain Factor $\beta_t$<br>- Reference TFC ID<br>- CHOICE <i>mode</i>                                                                                                                                        |                            | TDD<br>15<br>0 Integer(0.. 3)<br>TDD                                                                                                                                  |         | RBR3-1f<br>RBR3-1f<br>RBR3-1f<br>RBR3-1f                                                                              |
| - TFC subset                                                                                                                                                                                                                         |                            |                                                                                                                                                                       |         | RBR3-1f                                                                                                               |
| - CHOICE <i>Subset representation</i>                                                                                                                                                                                                |                            | Minimum allowed Transport format combination index                                                                                                                    |         | RBR3-1f                                                                                                               |
| - Allowed transport format combination list                                                                                                                                                                                          |                            | Not present                                                                                                                                                           |         | RBR3-1f                                                                                                               |
| - Non-allowed transport format combination list                                                                                                                                                                                      |                            | Not present                                                                                                                                                           |         | RBR3-1f                                                                                                               |
| - Non-allowed transport format                                                                                                                                                                                                       |                            | Not present                                                                                                                                                           |         | RBR3-1f                                                                                                               |



| Information Element                         | Condition                | Value/remark                                         | Version | Index   |
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| combination list                            |                          |                                                      |         |         |
| - Full transport format combination set     |                          | Not present                                          |         | RBR3-18 |
| - TFC subset list                           |                          | Not present                                          |         | RBR3-18 |
| Deleted TrCH information list               |                          |                                                      |         | RBR3-18 |
| Deleted UL TrCH information                 | A1, A2, A3,<br>A4, A5,A6 | Not Present                                          |         | RBR3-18 |
| Added or Reconfigured TrCH information list |                          |                                                      |         | RBR3-18 |
| Added or Reconfigured UL TrCH information   | A1, A2,<br>A5,A6<br>A4   | Not Present                                          |         | RBR3-18 |
| Added or Reconfigured UL TrCH information   |                          | 2 TrCHs(DCH for DCCH and DCH for DTCH)               |         | RBR3-18 |
| - Uplink transport channel type             |                          | DCH                                                  |         | RBR3-18 |
| - UL Transport channel identity             |                          | 5                                                    |         | RBR3-18 |
| - TFS                                       |                          |                                                      |         | RBR3-18 |
| - CHOICE Transport channel type             |                          | Dedicated transport channels                         |         | RBR3-18 |
| - Dynamic Transport format information      |                          |                                                      |         | RBR3-18 |
| - RLC Size                                  |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-18 |
| - Number of TBs and TTI List                |                          | (This IE is repeated for TFI number.)                |         | RBR3-18 |
| - Transmission Time Interval                |                          | Not Present                                          |         | RBR3-18 |
| - Number of Transport blocks                |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-18 |
| - CHOICE Logical Channel list               |                          | All                                                  |         | RBR3-18 |
| - Semi-static Transport Format information  |                          |                                                      |         | RBR3-18 |
| - Transmission time interval                |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-18 |
| - Type of channel coding                    |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-18 |
| - Coding Rate                               |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-20 |
| - Rate matching attribute                   |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-20 |
| - CRC size                                  |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-20 |
| - Uplink transport channel type             |                          | DCH                                                  |         | RBR3-20 |
| - UL Transport channel identity             |                          | 1                                                    |         | RBR3-20 |
| - TFS                                       |                          |                                                      |         | RBR3-20 |
| - CHOICE Transport channel type             |                          | Dedicated transport channels                         |         | RBR3-20 |
| - Dynamic Transport format information      |                          |                                                      |         | RBR3-20 |
| - RLC Size                                  |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-20 |
| - Number of TBs and TTI List                |                          | (This IE is repeated for TFI number.)                |         | RBR3-20 |
| - Transmission Time Interval                |                          | Not Present                                          |         | RBR3-20 |
| - Number of Transport blocks                |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-20 |
| - CHOICE Logical Channel list               |                          | All                                                  |         | RBR3-20 |
| - Semi-static Transport Format information  |                          |                                                      |         | RBR3-20 |
| - Transmission time interval                |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-20 |
| - Type of channel coding                    |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-20 |
| - Coding Rate                               |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-20 |
| - Rate matching attribute                   |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-20 |
| - CRC size                                  |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-20 |
| Added or Reconfigured UL TrCH information   | A3                       | (DCH for DTCH)                                       |         | RBR3-20 |
| - Uplink transport channel type             |                          | DCH                                                  |         | RBR3-20 |
| - UL Transport channel identity             |                          | 1                                                    |         | RBR3-20 |
| - TFS                                       |                          |                                                      |         | RBR3-20 |
| - CHOICE Transport channel type             |                          | Dedicated transport channels                         |         | RBR3-20 |
| - Dynamic Transport format information      |                          |                                                      |         | RBR3-20 |
| - RLC Size                                  |                          | Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-20 |
| - Number of TBs and TTI List                |                          | (This IE is repeated for TFI number.)                |         | RBR3-20 |
| - Transmission Time Interval                |                          | Not Present                                          |         | RBR3-20 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Condition             | Value/remark                                                                                                                                                                                                                                                                                                                                            | Version | Index                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Number of Transport blocks</li> <li>- CHOICE Logical Channel list</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul>                                                                                                                                                                                                                                                                                                                          |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set<br>All<br><br>Reference to TS34.108 clause 6.10.3<br>Parameter Set<br>Reference to TS34.108 clause 6.10.3<br>Parameter Set<br>Reference to TS34.108 clause 6.10.3<br>Parameter Set<br>Reference to TS34.108 clause 6.10.3<br>Parameter Set<br>Reference to TS34.108 clause 6.10.3<br>Parameter Set |         | RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21                                             |
| CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A1,A2,A3,<br>A4,A5,A6 | TDD                                                                                                                                                                                                                                                                                                                                                     |         | RBR3-21                                                                                                               |
| - (no data)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                                                                                                                                                                                                                                                                                         |         | RBR3-21                                                                                                               |
| <b>Downlink transport channels</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                                                                                                                                                                                                                                                                                                                                                         |         | RBR3-21                                                                                                               |
| DL Transport channel information common for all transport channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A1, A2, A5, A6        | Not Present                                                                                                                                                                                                                                                                                                                                             |         | RBR3-21                                                                                                               |
| DL Transport channel information common for all transport channel <ul style="list-style-type: none"> <li>- SCCPCH TFCS</li> <li>- CHOICE mode</li> <li>- Individual DL CCTrCH information               <ul style="list-style-type: none"> <li>- DL TFCS Identity                   <ul style="list-style-type: none"> <li>- TFCS ID</li> </ul> </li> <li>- Shared Channel Indicator</li> </ul> </li> <li>- CHOICE <i>DL parameters</i> <ul style="list-style-type: none"> <li>- DL TFCS                   <ul style="list-style-type: none"> <li>- CHOICE <i>TFCI signalling</i></li> </ul> </li> </ul> </li> <li>- TFCI Field 1 Information</li> </ul> | A3,A4                 | Not Present<br>TDD<br><br>Independent<br><br>Normal<br>(Normal' : meaning no split in the TFCI field either 'Logical' or 'Hard')                                                                                                                                                                                                                        |         | RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21                       |
| - CHOICE <i>TFCS representation</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | Complete reconfiguration                                                                                                                                                                                                                                                                                                                                |         | RBR3-21                                                                                                               |
| <ul style="list-style-type: none"> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- CTFC</li> <li>- Power offset information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | Number of bits used must be enough to cover all combinations of CTFC from clause TS34.108 clause 6.10.3.4 Parameter Set.<br>This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.3.4<br>Reference to TS34.108 clause 6.10.3.4 Parameter Set<br>Not Present                                                                         |         | RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21                                                                   |
| Deleted TrCH information list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                                                                                                                                                                                                                                                                                                                                                         |         | RBR3-21                                                                                                               |
| Deleted DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A1, A2, A3, A4, A5,A6 | Not Present                                                                                                                                                                                                                                                                                                                                             |         | RBR3-21                                                                                                               |
| Added or Reconfigured TrCH information list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                                                                                                                                                                                                                                                                                                                                                         |         | RBR3-21                                                                                                               |
| Added or Reconfigured DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A1, A2, A5, A6        | Not Present                                                                                                                                                                                                                                                                                                                                             |         | RBR3-21                                                                                                               |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> </ul>                                                                                                                                                                               | A4                    | 2 TrCHs(DCH for DCCH and DCH for DTCH)<br>DCH<br>10<br>Same as UL<br>DCH<br>5<br><br>Not Present<br>DCH<br>6<br>Explicit                                                                                                                                                                                                                                |         | RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21<br>RBR3-21 |

| Information Element                                                                                                                                                                                                                                                                                                                | Condition             | Value/remark                                                                                  | Version | Index   |
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| <ul style="list-style-type: none"> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format information</li> <li>- RLC Size</li> </ul>                                                                                                                                                                              |                       | Dedicated transport channel                                                                   |         | RBR3-27 |
|                                                                                                                                                                                                                                                                                                                                    |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set<br>(This IE is repeated for TFI number.) |         | RBR3-27 |
| <ul style="list-style-type: none"> <li>- Number of TBs and TTI List</li> <li>- Dynamic transport format information</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> </ul>                                                                                                                         |                       | Not Present                                                                                   |         | RBR3-27 |
|                                                                                                                                                                                                                                                                                                                                    |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-27 |
| <ul style="list-style-type: none"> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> </ul>                                                                                                                                                                                                 |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-28 |
|                                                                                                                                                                                                                                                                                                                                    |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-28 |
| <ul style="list-style-type: none"> <li>- Type of channel coding</li> </ul>                                                                                                                                                                                                                                                         |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-28 |
| <ul style="list-style-type: none"> <li>- Coding Rate</li> </ul>                                                                                                                                                                                                                                                                    |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-28 |
| <ul style="list-style-type: none"> <li>- Rate matching attribute</li> </ul>                                                                                                                                                                                                                                                        |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-28 |
| <ul style="list-style-type: none"> <li>- CRC size</li> </ul>                                                                                                                                                                                                                                                                       |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-28 |
| <ul style="list-style-type: none"> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul>                                                                                                                                                                                                                               |                       | -20 (-2.0)                                                                                    |         | RBR3-28 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format information</li> <li>- RLC Size</li> </ul> | A3                    | DCH<br>6<br>Explicit                                                                          |         | RBR3-28 |
|                                                                                                                                                                                                                                                                                                                                    |                       | Dedicated transport channel                                                                   |         | RBR3-28 |
|                                                                                                                                                                                                                                                                                                                                    |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set<br>(This IE is repeated for TFI number.) |         | RBR3-28 |
| <ul style="list-style-type: none"> <li>- Number of TBs and TTI List</li> <li>- Dynamic transport format information</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> </ul>                                                                                                                         |                       | Not Present                                                                                   |         | RBR3-28 |
|                                                                                                                                                                                                                                                                                                                                    |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-28 |
| <ul style="list-style-type: none"> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> </ul>                                                                                                                                                                                                 |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-30 |
|                                                                                                                                                                                                                                                                                                                                    |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-30 |
| <ul style="list-style-type: none"> <li>- Type of channel coding</li> </ul>                                                                                                                                                                                                                                                         |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-30 |
| <ul style="list-style-type: none"> <li>- Coding Rate</li> </ul>                                                                                                                                                                                                                                                                    |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-30 |
| <ul style="list-style-type: none"> <li>- Rate matching attribute</li> </ul>                                                                                                                                                                                                                                                        |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-30 |
| <ul style="list-style-type: none"> <li>- CRC size</li> </ul>                                                                                                                                                                                                                                                                       |                       | Reference to TS34.108 clause 6.10.3<br>Parameter Set                                          |         | RBR3-30 |
| <ul style="list-style-type: none"> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul>                                                                                                                                                                                                                               |                       | -20 (-2.0)                                                                                    |         | RBR3-30 |
| Preconfiguration                                                                                                                                                                                                                                                                                                                   | A1,A2,A3,<br>A4,A5,A6 | [FFS]                                                                                         | Rel-5   | RBR3-30 |
| <b>PhyCH information elements</b>                                                                                                                                                                                                                                                                                                  |                       |                                                                                               |         | RBR3-30 |
| Frequency info                                                                                                                                                                                                                                                                                                                     | A1,A2,A3,<br>A4,A5    |                                                                                               |         | RBR3-30 |
| <ul style="list-style-type: none"> <li>- CHOICE mode</li> <li>- UARFCN (Nt)</li> </ul>                                                                                                                                                                                                                                             |                       | TDD<br>Reference to clause 5.1 Test<br>frequencies                                            |         | RBR3-30 |
| Frequency info                                                                                                                                                                                                                                                                                                                     | A6                    | Not Present                                                                                   |         | RBR3-30 |
| <b>Uplink radio resources</b>                                                                                                                                                                                                                                                                                                      |                       |                                                                                               |         | RBR3-30 |
| Maximum allowed UL TX power                                                                                                                                                                                                                                                                                                        | A1,A2,A3,<br>A4,A5,A6 | 33dBm                                                                                         |         | RBR3-30 |
| CHOICE channel requirement                                                                                                                                                                                                                                                                                                         | A1, A2, A3,<br>A4     | Uplink DPCH info                                                                              |         | RBR3-30 |
| <ul style="list-style-type: none"> <li>-Uplink DPCH power control info</li> <li>- CHOICE mode</li> <li>- UL target SIR</li> <li>- CHOICE UL OL PC info</li> </ul>                                                                                                                                                                  |                       | TDD<br>6<br>Individually Signalled                                                            |         | RBR3-30 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Condition                          | Value/remark                                                                                                                                                                                                                                                                                                                                                                                   | Version                                                | Index                                                                                                                                                      |
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| <ul style="list-style-type: none"> <li>- CHOICE TDD option</li> <li>- Individual timeslot interference info</li> <li>- Individual timeslot interference</li> <li>- CHOICE TDD option</li> <li>- Timeslot number</li> <li>- TDD UL interference</li> <li>- Primary CCPCH Tx Power</li> <li>- CHOICE mode <ul style="list-style-type: none"> <li>- Uplink Timing Advance Control</li> <li>- CHOICE <i>Timing Advance</i></li> <li>- CHOICE <i>TDD option</i></li> </ul> </li> </ul>                                                                                                                                                                                                                                                                   |                                    | 3.84 Mcps TDD<br>Reference to TS34.108 clause 6.10.3 Parameter Set<br><br>3.84 Mcps TDD<br>As required by, Reference to TS34.108 clause 6.10.3 Parameter Set<br>As required by, Reference to TS34.108 clause 6.10.3 Parameter Set (if not specified -60 dBm)<br>18 Integer(6..43) (-70 dBm Received if pathloss not specified)<br>TDD<br><br>Enabled<br>3.84 Mcps TDD (Default)                | Rel-4<br><br><br><br><br><br><br><br><br><br><br>Rel-4 | RBR3-3;<br>RBR3-3;<br><br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br><br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3;                                                    |
| <ul style="list-style-type: none"> <li>- UL CCTrCH List</li> <li>- TFCS ID</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    | 1                                                                                                                                                                                                                                                                                                                                                                                              |                                                        | RBR3-3;<br>RBR3-3;                                                                                                                                         |
| <ul style="list-style-type: none"> <li>- UL Target SIR</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    | Real (-11 .. 20 by step of 0.5dB)<br>Reference to TS34.108 Parameter set.                                                                                                                                                                                                                                                                                                                      |                                                        | RBR3-3;                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>- Time info <ul style="list-style-type: none"> <li>- Activation time</li> <li>- Duration</li> </ul> </li> <li>- Common timeslot info <ul style="list-style-type: none"> <li>- 2<sup>nd</sup> interleaving mode</li> <li>- TFCI coding</li> </ul> </li> <li>- Puncturing limit</li> <li>- Repetition period</li> <li>- Repetition length</li> <li>- Uplink DPCH timeslots and code <ul style="list-style-type: none"> <li>- Dynamic SF usage</li> </ul> </li> <li>- First individual timeslot info <ul style="list-style-type: none"> <li>- Timeslot number</li> <li>- CHOICE TDD option</li> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble shift and burst type</li> </ul> </li> </ul> |                                    | (256+CFN-(CFN MOD 8 + 8))MOD 256<br>infinite<br><br>Default value is "Frame"<br>Reference to TS34.108 clause 6<br>Parameter set<br>Reference to TS34.108 clause 6<br>Parameter set<br>1<br>empty<br><br>FALSE<br><br>3.84 Mcps TDD<br>1 OR 2 OR 3<br>TRUE                                                                                                                                      | <br><br><br><br><br><br><br><br><br><br><br>Rel-4      | RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br><br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3; |
| <ul style="list-style-type: none"> <li>- CHOICE TDD option</li> <li>- CHOICE <i>Burst Type</i> <ul style="list-style-type: none"> <li>- Midamble allocation mode</li> <li>- Midamble configuration</li> <li>- Midamble Shift</li> </ul> </li> <li>- CHOICE TDD option</li> <li>- First timeslot Code List</li> <li>- channelisation codes</li> <li>- CHOICE more timeslots</li> <li>- UL CCTrCH List to Remove CHOICE channel requirement</li> </ul>                                                                                                                                                                                                                                                                                                | <br><br><br><br><br><br><br>A5, A6 | 3.84 Mcps TDD<br>Type 1<br>Default midamble<br>16<br>Not Present<br>3.84 Mcps TDD (No Data)<br>Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set.<br>(SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set.<br>No more timeslots (No Data)<br>Not present<br>Not Present | Rel-4<br><br><br><br><br><br><br>Rel-4                 | RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br>RBR3-3;<br><br>RBR3-3;<br>RBR3-3;<br>RBR3-3;                                  |
| <b>Downlink radio resources</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |                                                                                                                                                                                                                                                                                                                                                                                                |                                                        | RBR3-3;                                                                                                                                                    |
| CHOICE Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A1,A2,A3, A4,A5,A6                 | TDD                                                                                                                                                                                                                                                                                                                                                                                            |                                                        | RBR3-3;                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>- Downlink PDSCH information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    | No date                                                                                                                                                                                                                                                                                                                                                                                        |                                                        | RBR3-3;                                                                                                                                                    |
| Downlink HS-PDSCH Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1, A2, A3, A4, A5, A6             | Not Present                                                                                                                                                                                                                                                                                                                                                                                    | Rel-5                                                  | RBR3-3;                                                                                                                                                    |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A5, A6                             | Not Present                                                                                                                                                                                                                                                                                                                                                                                    |                                                        | RBR3-3;                                                                                                                                                    |
| Downlink information common for all radio links <ul style="list-style-type: none"> <li>- Downlink DPCH info common for all RL</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A1, A2, A3                         |                                                                                                                                                                                                                                                                                                                                                                                                |                                                        | RBR3-3;<br>RBR3-3;                                                                                                                                         |

[illegible]

| Information Element                                                                                                                                                                                                                                                                                                                                     | Condition | Value/remark                                                                                                                                                                                                 | Version            | Index                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- CHOICE codes representation</li> <li>- Channelisation codes bitmap</li> <li>- CHOICE more timeslots</li> <li>- UL CCTrCH TPC List</li> <li>- UL TPC TFCS Identity</li> <li>- TFCS ID</li> <li>- Shared Channel Indicator</li> <li>- DL CCTrCH List to Remove</li> <li>- SCCPCH Information for FACH</li> </ul> |           | Set.<br>Bitmap<br>Reference to TS34.108 clause 6.10<br>Parameter Set<br>No more timeslots (No Data)<br>Default (is previous list or all defined UL CCTrCHs.)<br><br>1<br>FALSE<br>Not present<br>Not Present | R99 and Rel-4 only | RBR3-4:<br>RBR3-4:<br><br>RBR3-4:<br>RBR3-4:<br><br>RBR3-4:<br>RBR3-4:<br>RBR3-4:<br>RBR3-4: |
| Downlink information per radio link list <ul style="list-style-type: none"> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CCPCH info</li> <li>- Choice mode</li> <li>- Choice TDD Option</li> <li>- TSTD indicator</li> <li>- Cell parameters ID</li> <li>- SCTD indicator</li> </ul>                        | A5        | TDD<br><br>TDD<br>3.84 Mcps TDD<br>FALSE<br>Reference clause 6.1.4 Default settings for cell 1<br>FALSE                                                                                                      | Rel-4              | RBR3-4:<br>RBR3-4:<br>RBR3-4:<br>RBR3-4:<br>RBR3-4:<br>RBR3-4:<br>RBR3-4:                    |
| - Downlink DPCH info for each RL                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                                                                                                                                                  |                    | RBR3-4:                                                                                      |
| - SCCPCH Information for FACH                                                                                                                                                                                                                                                                                                                           |           | Not Present                                                                                                                                                                                                  | R99 and Rel-4 only | RBR3-4:                                                                                      |
| Downlink information per radio link list                                                                                                                                                                                                                                                                                                                | A6        |                                                                                                                                                                                                              |                    | RBR3-4:                                                                                      |
| - Downlink information for each radio link                                                                                                                                                                                                                                                                                                              |           | Not Present                                                                                                                                                                                                  |                    | RBR3-4:                                                                                      |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

## Contents of RADIO BEARER RECONFIGURATION message: AM or UM (1.28 Mcps TDD)

| Information Element            | Condition         | Value/remark                                                                                                                                                       | Version | Index    |
|--------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                   | A1,A2,A3,A4,A5,A6 |                                                                                                                                                                    |         | RBR1-001 |
| <b>UE Information elements</b> |                   |                                                                                                                                                                    |         | RBR1-002 |
| RRC transaction identifier     |                   | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBR1-003 |
| Integrity check info           |                   |                                                                                                                                                                    |         | RBR1-004 |
| - message authentication code  |                   | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | RBR1-005 |
| - RRC message sequence number  |                   | SS provides the value of this IE, from its internal counter.                                                                                                       |         | RBR1-006 |
| Integrity protection mode info |                   | Not Present                                                                                                                                                        |         | RBR1-007 |
| Ciphering mode info            |                   | Not Present                                                                                                                                                        |         | RBR1-008 |
| Activation time                | A1,A2,A3          | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |         | RBR1-009 |
| Activation time                | A4, A5,A6         | Not Present                                                                                                                                                        |         | RBR1-010 |
| Delay restriction flag         | A1,A2,A3,A4,A5,A6 | MD Integer(0..255) default is 'now'                                                                                                                                | Rel-6   | RBR1-011 |
| New U-RNTI                     |                   | Not Present                                                                                                                                                        |         | RBR1-012 |
| New C-RNTI                     | A1, A2, A3, A4,   | Not Present                                                                                                                                                        |         | RBR1-013 |

| Information Element                                              | Condition              | Value/remark                                                                                                            | Version | Index     |
|------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------|---------|-----------|
| New C-RNTI                                                       | A5, A6                 | '1010 1010 1010 1010'                                                                                                   |         | RBR1-014  |
| New DSCH-RNTI                                                    | A1, A2, A3, A4, A5, A6 | Not Present                                                                                                             |         | RBR1-015  |
| New H-RNTI                                                       | A1, A2, A3, A4, A5, A6 | Not Present                                                                                                             | Rel-5   | RBR1-016  |
| CHOICE mode                                                      |                        | TDD                                                                                                                     | Rel-7   | RBR1-017  |
| - New E-RNTI                                                     |                        | Not Present                                                                                                             | Rel-7   | RBR1-018  |
| RRC State indicator                                              | A1, A2, A3, A4         | CELL_DCH<br>Indicates to a UE the RRC state to be entered.                                                              |         | RBR1-019  |
| RRC State indicator                                              | A5, A6                 | CELL_FACH                                                                                                               |         | RBR1-020  |
| UTRAN DRX cycle length coefficient                               | A1,A2,A3,A4, A5,A6     | Not Present<br>A coefficient in the formula to count the paging occasions to be used by a specific UE                   |         | RBR1-021  |
| <b>CN information elements</b>                                   |                        |                                                                                                                         |         | RBR1-022  |
| CN information info                                              |                        | Not Present                                                                                                             |         | RBR1-023  |
| <b>UTRAN mobility information elements</b>                       |                        |                                                                                                                         |         | RBR1-024  |
| RNC support for change of UE capability                          |                        | Not Present                                                                                                             | Rel-7   | RBR1-024a |
| Reconfiguration in response to requested change of UE capability |                        | Not Present                                                                                                             | Rel-7   | RBR1-024b |
| URA identity                                                     |                        | Not Present                                                                                                             |         | RBR1-025  |
| Default configuration for CELL_FACH                              |                        | Not Present                                                                                                             | Rel-8   | RBR1-025a |
| CHOICE specification mode                                        |                        | [FFS]                                                                                                                   | Rel-5   | RBR1-026  |
| <b>RB information elements</b>                                   |                        |                                                                                                                         |         | RBR1-027  |
| RAB information to reconfigure list                              |                        | Not Present                                                                                                             |         | RBR1-028  |
| RB information to reconfigure list                               | A1                     | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".<br>(UM DCCH for RRC) |         | RBR1-029  |
| - RB information to reconfigure                                  |                        | 1                                                                                                                       |         | RBR1-030  |
| - RB identity                                                    |                        | Not Present                                                                                                             |         | RBR1-031  |
| - PDCP info                                                      |                        | Not Present                                                                                                             |         | RBR1-032  |
| - PDCP SN info                                                   |                        | Not Present                                                                                                             |         | RBR1-033  |
| - RLC info                                                       |                        | Not Present                                                                                                             |         | RBR1-034  |
| - RB mapping info                                                |                        | Not Present                                                                                                             |         | RBR1-035  |
| - RB stop/continue                                               |                        | Not Present                                                                                                             |         | RBR1-036  |
| - RB information to reconfigure                                  |                        | (AM DCCH for RRC)                                                                                                       |         | RBR1-037  |
| - RB identity                                                    |                        | 2                                                                                                                       |         | RBR1-038  |
| - PDCP info                                                      |                        | Not Present                                                                                                             |         | RBR1-039  |
| - PDCP SN info                                                   |                        | Not Present                                                                                                             |         | RBR1-040  |
| - RLC info                                                       |                        | Not Present                                                                                                             |         | RBR1-041  |
| - RB mapping info                                                |                        | Not Present                                                                                                             |         | RBR1-042  |
| - RB stop/continue                                               |                        | Not Present                                                                                                             |         | RBR1-043  |
| - RB information to reconfigure                                  |                        | (AM DCCH for NAS_DT High priority)                                                                                      |         | RBR1-044  |
| - RB identity                                                    |                        | 3                                                                                                                       |         | RBR1-045  |
| - PDCP info                                                      |                        | Not Present                                                                                                             |         | RBR1-046  |
| - PDCP SN info                                                   |                        | Not Present                                                                                                             |         | RBR1-047  |
| - RLC info                                                       |                        | Not Present                                                                                                             |         | RBR1-048  |
| - RB mapping info                                                |                        | Not Present                                                                                                             |         | RBR1-049  |
| - RB stop/continue                                               |                        | Not Present                                                                                                             |         | RBR1-050  |
| - RB information to reconfigure                                  |                        | (AM DCCH for NAS_DT Low priority)                                                                                       |         | RBR1-051  |
| - RB identity                                                    |                        | 4                                                                                                                       |         | RBR1-052  |
| - PDCP info                                                      |                        | Not Present                                                                                                             |         | RBR1-053  |
| - PDCP SN info                                                   |                        | Not Present                                                                                                             |         | RBR1-054  |
| - RLC info                                                       |                        | Not Present                                                                                                             |         | RBR1-055  |
| - RB mapping info                                                |                        | Not Present                                                                                                             |         | RBR1-056  |
| - RB stop/continue                                               |                        | Not Present                                                                                                             |         | RBR1-057  |
| - RB information to reconfigure                                  |                        | (TM DTCH)                                                                                                               |         | RBR1-058  |
| - RB identity                                                    |                        | 10                                                                                                                      |         | RBR1-059  |
| - PDCP info                                                      |                        | Not Present                                                                                                             |         | RBR1-060  |
| - PDCP SN info                                                   |                        | Not Present                                                                                                             |         | RBR1-061  |
| - RLC info                                                       |                        | Not Present                                                                                                             |         | RBR1-062  |
| - RB mapping info                                                |                        | Not Present                                                                                                             |         | RBR1-063  |
| - RB stop/continue                                               |                        | Not Present                                                                                                             |         | RBR1-064  |
| RB information to reconfigure list                               | A2                     | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".                      |         | RBR1-065  |

| Information Element                | Condition   | Value/remark                                                                                       | Version | Index    |
|------------------------------------|-------------|----------------------------------------------------------------------------------------------------|---------|----------|
| - RB information to reconfigure    |             | (UM DCCH for RRC)                                                                                  |         | RBR1-066 |
| - RB identity                      |             | 1                                                                                                  |         | RBR1-067 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBR1-068 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBR1-069 |
| - RLC info                         |             | Not Present                                                                                        |         | RBR1-070 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBR1-071 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBR1-072 |
| - RB information to reconfigure    |             | (AM DCCH for RRC)                                                                                  |         | RBR1-073 |
| - RB identity                      |             | 2                                                                                                  |         | RBR1-074 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBR1-075 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBR1-076 |
| - RLC info                         |             | Not Present                                                                                        |         | RBR1-077 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBR1-078 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBR1-079 |
| - RB information to reconfigure    |             | (AM DCCH for NAS_DT High priority)                                                                 |         | RBR1-080 |
| - RB identity                      |             | 3                                                                                                  |         | RBR1-081 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBR1-082 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBR1-083 |
| - RLC info                         |             | Not Present                                                                                        |         | RBR1-084 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBR1-085 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBR1-086 |
| - RB information to reconfigure    |             | (AM DCCH for NAS_DT Low priority)                                                                  |         | RBR1-087 |
| - RB identity                      |             | 4                                                                                                  |         | RBR1-088 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBR1-089 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBR1-090 |
| - RLC info                         |             | Not Present                                                                                        |         | RBR1-091 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBR1-092 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBR1-093 |
| - RB information to reconfigure    |             | (TM DTCH)                                                                                          |         | RBR1-094 |
| - RB identity                      |             | 10                                                                                                 |         | RBR1-095 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBR1-096 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBR1-097 |
| - RLC info                         |             | Not Present                                                                                        |         | RBR1-098 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBR1-099 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBR1-100 |
| - RB information to reconfigure    |             | (TM DTCH)                                                                                          |         | RBR1-101 |
| - RB identity                      |             | 11                                                                                                 |         | RBR1-102 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBR1-103 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBR1-104 |
| - RLC info                         |             | Not Present                                                                                        |         | RBR1-105 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBR1-106 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBR1-107 |
| - RB information to reconfigure    |             | (TM DTCH)                                                                                          |         | RBR1-108 |
|                                    |             | (This IE is needed for 12.2 kbps and 10.2 kbps)                                                    |         |          |
| - RB identity                      |             | 12                                                                                                 |         | RBR1-109 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBR1-110 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBR1-111 |
| - RLC info                         |             | Not Present                                                                                        |         | RBR1-112 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBR1-113 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBR1-114 |
| RB information to reconfigure list | A3,A4,A5,A6 | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". |         | RBR1-115 |
|                                    |             | (UM DCCH for RRC)                                                                                  |         | RBR1-116 |
| - RB information to reconfigure    |             | 1                                                                                                  |         | RBR1-117 |
| - RB identity                      |             | Not Present                                                                                        |         | RBR1-118 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBR1-119 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBR1-120 |
| - RLC info                         |             | Not Present                                                                                        |         | RBR1-121 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBR1-122 |
| - RB stop/continue                 |             | Not Present                                                                                        |         | RBR1-123 |
| - RB information to reconfigure    |             | (AM DCCH for RRC)                                                                                  |         | RBR1-124 |
| - RB identity                      |             | 2                                                                                                  |         | RBR1-125 |
| - PDCP info                        |             | Not Present                                                                                        |         | RBR1-126 |
| - PDCP SN info                     |             | Not Present                                                                                        |         | RBR1-127 |
| - RLC info                         |             | Not Present                                                                                        |         | RBR1-128 |
| - RB mapping info                  |             | Not Present                                                                                        |         | RBR1-129 |



| Information Element                                         | Condition              | Value/remark                                                                                             | Version | Index    |
|-------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------|---------|----------|
| - RB stop/continue                                          | A1, A2,<br>A3,A4,A5,A6 | Not Present                                                                                              |         | RBR1-129 |
| - RB information to reconfigure                             |                        | (AM DCCH for NAS_DT High priority)                                                                       |         | RBR1-130 |
| - RB identity                                               |                        | 3                                                                                                        |         | RBR1-131 |
| - PDCP info                                                 |                        | Not Present                                                                                              |         | RBR1-132 |
| - PDCP SN info                                              |                        | Not Present                                                                                              |         | RBR1-133 |
| - RLC info                                                  |                        | Not Present                                                                                              |         | RBR1-134 |
| - RB mapping info                                           |                        | Not Present                                                                                              |         | RBR1-135 |
| - RB stop/continue                                          |                        | Not Present                                                                                              |         | RBR1-136 |
| - RB information to reconfigure                             |                        | (AM DCCH for NAS_DT Low priority)                                                                        |         | RBR1-137 |
| - RB identity                                               |                        | 4                                                                                                        |         | RBR1-138 |
| - PDCP info                                                 |                        | Not Present                                                                                              |         | RBR1-139 |
| - PDCP SN info                                              |                        | Not Present                                                                                              |         | RBR1-140 |
| - RLC info                                                  |                        | Not Present                                                                                              |         | RBR1-141 |
| - RB mapping info                                           |                        | Not Present                                                                                              |         | RBR1-142 |
| - RB stop/continue                                          |                        | Not Present                                                                                              |         | RBR1-143 |
| - RB information to reconfigure                             |                        | (AM DTCH)                                                                                                |         | RBR1-144 |
| - RB identity                                               |                        | 20                                                                                                       |         | RBR1-145 |
| - PDCP info                                                 |                        | Not Present                                                                                              |         | RBR1-146 |
| - PDCP SN info                                              |                        | Not Present                                                                                              |         | RBR1-147 |
| - RLC info                                                  |                        | Not Present                                                                                              |         | RBR1-148 |
| - RB mapping info                                           |                        | Not Present                                                                                              |         | RBR1-149 |
| - RB stop/continue                                          |                        | Not Present                                                                                              |         | RBR1-150 |
| RB information to be affected                               |                        | Not Present                                                                                              |         | RBR1-151 |
| <b>TrCH Information Elements</b>                            |                        |                                                                                                          |         | RBR1-152 |
| <b>Uplink transport channels</b>                            |                        |                                                                                                          |         | RBR1-153 |
| UL Transport channel information for all transport channels | A1, A2,<br>A5,A6       | Not Present                                                                                              |         | RBR1-154 |
| UL Transport channel information for all transport channels | A3, A4                 |                                                                                                          |         | RBR1-155 |
| - PRACH TFCS                                                |                        | Not Present                                                                                              |         | RBR1-156 |
| - CHOICE mode                                               |                        | TDD                                                                                                      |         | RBR1-157 |
| - Individual UL CCTrCH information                          |                        |                                                                                                          |         | RBR1-158 |
| - UL TFCS Identity                                          |                        |                                                                                                          |         | RBR1-159 |
| - TFCS ID                                                   |                        | 1                                                                                                        |         | RBR1-160 |
| - Shared Channel Indicator                                  |                        | FALSE                                                                                                    |         | RBR1-161 |
| - UL TFCS                                                   |                        |                                                                                                          |         | RBR1-162 |
| - CHOICE <i>TFCI signalling</i>                             |                        | Normal<br>(another option "split" only for FDD)                                                          |         | RBR1-163 |
| - TFCI Field 1 Information                                  |                        |                                                                                                          |         | RBR1-164 |
| - CHOICE <i>TFCS representation</i>                         |                        | Complete reconfiguration                                                                                 |         | RBR1-165 |
| - TFCS complete reconfiguration                             |                        |                                                                                                          |         | RBR1-166 |
| - CHOICE <i>CTFC Size</i>                                   |                        | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. |         | RBR1-167 |
| - CTFC information                                          |                        | This IE is repeated for TFC numbers and reference to clause 6.11.5.4 Parameter Set                       |         | RBR1-168 |
| - CTFC                                                      |                        | Reference to clause 6.11.5.4 Parameter Set                                                               |         | RBR1-169 |
| - Power offset information                                  |                        |                                                                                                          |         | RBR1-170 |
| - CHOICE Gain Factors                                       |                        | Computed Gain Factors<br>(The last TFC is set to Signalled Gain Factors)                                 |         | RBR1-171 |
| - Reference TFC ID                                          |                        | 0 Integer(0.. 3)                                                                                         |         | RBR1-172 |
| - CHOICE Gain Factors                                       |                        | Signalled Gain Factors<br>(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)        |         | RBR1-173 |
| - CHOICE <i>mode</i>                                        |                        | TDD                                                                                                      |         | RBR1-174 |
| - Gain Factor $\beta_d$                                     |                        | 15                                                                                                       |         | RBR1-175 |
| - Reference TFC ID                                          |                        | 0 Integer(0.. 3)                                                                                         |         | RBR1-176 |

| Information Element                             | Condition             | Value/remark                                       | Version | Index    |
|-------------------------------------------------|-----------------------|----------------------------------------------------|---------|----------|
| - CHOICE <i>mode</i>                            |                       | TDD                                                |         | RBR1-177 |
| - TFC subset                                    |                       |                                                    |         | RBR1-178 |
| - CHOICE <i>Subset representation</i>           |                       | Minimum allowed Transport format combination index |         | RBR1-179 |
| - Allowed transport format combination list     |                       | Not present                                        |         | RBR1-180 |
| - Non-allowed transport format combination list |                       | Not present                                        |         | RBR1-181 |
| - Non-allowed transport format combination list |                       | Not present                                        |         | RBR1-182 |
| - Full transport format combination set         |                       | Not present                                        |         | RBR1-183 |
| - TFC subset list                               |                       | Not present                                        |         | RBR1-184 |
| Deleted TrCH information list                   |                       |                                                    |         | RBR1-185 |
| Deleted UL TrCH information                     | A1, A2, A3, A4, A5,A6 | Not Present                                        |         | RBR1-186 |
| Added or Reconfigured TrCH information list     |                       |                                                    |         | RBR1-187 |
| Added or Reconfigured UL TrCH information       | A1, A2, A5,A6         | Not Present                                        |         | RBR1-188 |
| Added or Reconfigured UL TrCH information       | A4                    | 2 TrCHs(DCH for DCCH and DCH for DTCH)             |         | RBR1-189 |
| - Uplink transport channel type                 |                       | DCH                                                |         | RBR1-190 |
| - UL Transport channel identity                 |                       | 5                                                  |         | RBR1-191 |
| - TFS                                           |                       |                                                    |         | RBR1-192 |
| - CHOICE Transport channel type                 |                       | Dedicated transport channels                       |         | RBR1-193 |
| - Dynamic Transport format information          |                       |                                                    |         | RBR1-194 |
| - RLC Size                                      |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-195 |
| - Number of TBs and TTI List                    |                       | (This IE is repeated for TFI number.)              |         | RBR1-196 |
| - Transmission Time Interval                    |                       | Not Present                                        |         | RBR1-197 |
| - Number of Transport blocks                    |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-198 |
| - CHOICE Logical channel list                   |                       | All                                                |         | RBR1-199 |
| - Semi-static Transport Format information      |                       |                                                    |         | RBR1-200 |
| - Transmission time interval                    |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-201 |
| - Type of channel coding                        |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-202 |
| - Coding Rate                                   |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-203 |
| - Rate matching attribute                       |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-204 |
| - CRC size                                      |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-205 |
| - Uplink transport channel type                 |                       | DCH                                                |         | RBR1-206 |
| - UL Transport channel identity                 |                       | 1                                                  |         | RBR1-207 |
| - TFS                                           |                       |                                                    |         | RBR1-208 |
| - CHOICE Transport channel type                 |                       | Dedicated transport channels                       |         | RBR1-209 |
| - Dynamic Transport format information          |                       |                                                    |         | RBR1-210 |
| - RLC Size                                      |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-211 |
| - Number of TBs and TTI List                    |                       | (This IE is repeated for TFI number.)              |         | RBR1-212 |
| - Transmission Time Interval                    |                       | Not Present                                        |         | RBR1-213 |
| - Number of Transport blocks                    |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-214 |
| - CHOICE Logical channel list                   |                       | All                                                |         | RBR1-215 |
| - Semi-static Transport Format information      |                       |                                                    |         | RBR1-216 |
| - Transmission time interval                    |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-217 |
| - Type of channel coding                        |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-218 |
| - Coding Rate                                   |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-219 |
| - Rate matching attribute                       |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-220 |
| - CRC size                                      |                       | Reference to clause 6.11.5 Parameter Set           |         | RBR1-221 |
| Added or Reconfigured UL TrCH information       | A3                    | (DCH for DTCH)                                     |         | RBR1-222 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Condition             | Value/remark                                                                                             | Version | Index    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul> |                       | DCH                                                                                                      |         | RBR1-223 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Dedicated transport channels                                                                             |         | RBR1-226 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Reference to clause 6.11.5 Parameter Set                                                                 |         | RBR1-228 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | (This IE is repeated for TFI number.)                                                                    |         | RBR1-229 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Not Present                                                                                              |         | RBR1-230 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Reference to clause 6.11.5 Parameter Set                                                                 |         | RBR1-231 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | All                                                                                                      |         | RBR1-232 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Reference to clause 6.11.5 Parameter Set                                                                 |         | RBR1-233 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Reference to clause 6.11.5 Parameter Set                                                                 |         | RBR1-234 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Reference to clause 6.11.5 Parameter Set                                                                 |         | RBR1-236 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Reference to clause 6.11.5 Parameter Set                                                                 |         | RBR1-237 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Reference to clause 6.11.5 Parameter Set                                                                 |         | RBR1-238 |
| CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A1,A2,A3,A4, A5,A6    | TDD                                                                                                      |         | RBR1-239 |
| - (no data)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                                                                                                          |         | RBR1-240 |
| <b>Downlink transport channels</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                                                                                                          |         | RBR1-241 |
| DL Transport channel information common for all transport channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A1, A2, A5, A6        | Not Present                                                                                              |         | RBR1-242 |
| DL Transport channel information common for all transport channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A3,A4                 |                                                                                                          |         | RBR1-243 |
| - SCCPCH TFCS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | Not Present                                                                                              |         | RBR1-244 |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | TDD                                                                                                      |         | RBR1-245 |
| <ul style="list-style-type: none"> <li>- Individual DL CCTrCH information</li> <li>- DL TFCS Identity</li> <li>- TFCS ID</li> <li>- Shared Channel Indicator</li> <li>- CHOICE <i>DL parameters</i></li> <li>- DL TFCS</li> <li>- CHOICE <i>TFCI signalling</i></li> <li>- TFCI Field 1 Information</li> <li>- CHOICE <i>TFCS representation</i></li> <li>- TFCS complete</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- CTFC</li> <li>- Power offset</li> </ul>                                                                                                                                      |                       |                                                                                                          |         | RBR1-246 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                                                                                                          |         | RBR1-247 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | (Normal' : meaning no split in the TFCI field either 'Logical' or 'Hard')                                |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                                                                                                          |         | RBR1-253 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Complete reconfiguration                                                                                 |         | RBR1-254 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. |         | RBR1-256 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | This IE is repeated for TFC numbers and reference to clause 6.11.5.4                                     |         | RBR1-257 |
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| information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                                                                                                          |         | RBR1-260 |
| Deleted TrCH information list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                                                                                                          |         | RBR1-261 |
| Deleted DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A1, A2, A3, A4, A5,A6 | Not Present                                                                                              |         |          |
| Added or Reconfigured TrCH information list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                                                                                                          |         | RBR1-262 |
| Added or Reconfigured DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A1, A2, A5, A6        | Not Present                                                                                              |         | RBR1-263 |
| Added or Reconfigured DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A4                    | 2 TrCHs(DCH for DCCH and DCH for DTCH)                                                                   |         | RBR1-264 |
| - Downlink transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       | DCH                                                                                                      |         | RBR1-265 |
| - DL Transport channel identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | 10                                                                                                       |         | RBR1-266 |
| - CHOICE DL parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       | Same as UL                                                                                               |         | RBR1-267 |
| - Uplink transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       | DCH                                                                                                      |         | RBR1-268 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Condition                                | Value/remark                             | Version | Index    |
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| <ul style="list-style-type: none"><li>- UL TrCH identity</li><li>- DCH quality target</li><li>- BLER Quality value</li><li>- Downlink transport channel type</li><li>- DL Transport channel identity</li><li>- CHOICE DL parameters</li><li>- TFS</li><li>- CHOICE Transport channel type</li><li>- Dynamic transport format information</li><li>- RLC Size</li></ul><br><ul style="list-style-type: none"><li>- Number of TBs and TTI List</li><li>- Dynamic transport format information</li><li>- Transmission Time Interval</li><li>- Number of Transport blocks</li></ul><br><ul style="list-style-type: none"><li>- Semi-static Transport Format information</li><li>- Transmission time interval</li></ul><br><ul style="list-style-type: none"><li>- Type of channel coding</li></ul><br><ul style="list-style-type: none"><li>- Coding Rate</li></ul><br><ul style="list-style-type: none"><li>- Rate matching attribute</li></ul><br><ul style="list-style-type: none"><li>- CRC size</li></ul><br><ul style="list-style-type: none"><li>- DCH quality target</li><li>- BLER Quality value</li></ul><br>Added or Reconfigured DL TrCH information <ul style="list-style-type: none"><li>- Downlink transport channel type</li><li>- DL Transport channel identity</li><li>- CHOICE DL parameters</li></ul> | A3                                       | 5                                        |         | RBR1-269 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |                                          |         | RBR1-270 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | DCH                                      |         | RBR1-272 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | 6                                        |         | RBR1-273 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | Dedicated transport channel              |         | RBR1-276 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |                                          |         | RBR1-277 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | (This IE is repeated for TFI number.)    |         | RBR1-279 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | Not Present                              |         | RBR1-281 |
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| <ul style="list-style-type: none"><li>- TFS</li><li>- CHOICE Transport channel type</li><li>- Dynamic transport format information</li><li>- RLC Size</li></ul><br><ul style="list-style-type: none"><li>- Number of TBs and TTI List</li><li>- Dynamic transport format information</li><li>- Transmission Time Interval</li><li>- Number of Transport blocks</li></ul><br><ul style="list-style-type: none"><li>- Semi-static Transport Format information</li><li>- Transmission time interval</li></ul><br><ul style="list-style-type: none"><li>- Type of channel coding</li></ul><br><ul style="list-style-type: none"><li>- Coding Rate</li></ul><br><ul style="list-style-type: none"><li>- Rate matching attribute</li></ul><br><ul style="list-style-type: none"><li>- CRC size</li></ul><br><ul style="list-style-type: none"><li>- DCH quality target</li><li>- BLER Quality value</li></ul><br>Preconfiguration<br><br><b>PhyCH information elements</b><br>Frequency info<br><br><ul style="list-style-type: none"><li>- CHOICE mode</li><li>- UARFCN (Nt)</li></ul><br><br>Frequency info<br>Multi-frequency Info<br>MIMO parameters                                                                                                                                                                  | A1,A2,A3,A4,A5,A6                        | Dedicated transport channel              | Rel-5   | RBR1-295 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | Reference to clause 6.11.5 Parameter Set |         | RBR1-302 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |                                          |         | RBR1-303 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | Reference to clause 6.11.5 Parameter Set |         | RBR1-304 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | Reference to clause 6.11.5 Parameter Set |         | RBR1-305 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Reference to clause 6.11.5 Parameter Set | RBR1-306                                 |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Reference to clause 6.11.5 Parameter Set | RBR1-307                                 |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Reference to clause 6.11.5 Parameter Set | RBR1-308                                 |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | RBR1-309                                 |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | RBR1-310                                 |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -20 (-2.0)                               | RBR1-311                                 |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | [FFS]                                    |                                          |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | RBR1-312                                 |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | RBR1-313                                 |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | RBR1-314                                 |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | RBR1-315                                 |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | RBR1-316                                 |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          | RBR1-316a                                |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RBR1-316b                                |                                          |         |          |

| Information Element                             | Condition                 | Value/remark                                                                                                                                                                                                                 | Version | Index     |
|-------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|
| Control Channel DRX information                 |                           | Not Present                                                                                                                                                                                                                  | Rel-8   | RBR1-316c |
| SPS Information                                 |                           | Not Present                                                                                                                                                                                                                  | Rel-8   | RBR1-316d |
| MU-MIMO info                                    |                           | Not Present                                                                                                                                                                                                                  | Rel-10  | RBR1-316e |
| <b>Uplink radio resources</b>                   |                           |                                                                                                                                                                                                                              |         | RBR1-317  |
| Maximum allowed UL TX power                     | A1,A2,A3,A4,<br>A5,A6     | 33dBm                                                                                                                                                                                                                        |         | RBR1-318  |
| CHOICE channel requirement                      | A1, A2, A3,<br>A4         | Uplink DPCH info                                                                                                                                                                                                             |         | RBR1-319  |
| -Uplink DPCH power control info                 |                           |                                                                                                                                                                                                                              |         | RBR1-320  |
| - CHOICE mode                                   |                           | TDD                                                                                                                                                                                                                          | Rel-4   | RBR1-321  |
| - UL target SIR                                 |                           | 25 dB                                                                                                                                                                                                                        |         | RBR1-322  |
| - CHOICE <i>UL OL PC info</i>                   |                           |                                                                                                                                                                                                                              |         | RBR1-324  |
| - Broadcast UL OL PC info                       |                           | Null                                                                                                                                                                                                                         |         | RBR1-325  |
| - CHOICE mode                                   |                           | TDD                                                                                                                                                                                                                          |         | RBR1-326  |
| - Uplink Timing Advance Control                 |                           |                                                                                                                                                                                                                              |         | RBR1-327  |
| - CHOICE <i>Timing Advance</i>                  |                           | Enabled                                                                                                                                                                                                                      |         | RBR1-328  |
| - CHOICE <i>TDD option</i>                      |                           | 1.28 Mcps TDD                                                                                                                                                                                                                |         | RBR1-329  |
| - Uplink synchronization parameters             |                           |                                                                                                                                                                                                                              |         | RBR1-330  |
| - Uplink synchronization step size              |                           | 1                                                                                                                                                                                                                            |         | RBR1-331  |
| - Uplink synchronization frequency              |                           | 1                                                                                                                                                                                                                            |         | RBR1-332  |
| - Synchronization parameters                    |                           | Not Present                                                                                                                                                                                                                  |         | RBR1-333  |
| - UL CCTrCH List                                |                           |                                                                                                                                                                                                                              |         | RBR1-334  |
| - TFCS ID                                       |                           | 1                                                                                                                                                                                                                            |         | RBR1-335  |
| - UL Target SIR                                 |                           | 25 dB                                                                                                                                                                                                                        |         | RBR1-336  |
| - Time info                                     |                           |                                                                                                                                                                                                                              |         | RBR1-337  |
| - Activation time                               |                           | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                                                                             |         | RBR1-338  |
| - Duration                                      |                           | infinite                                                                                                                                                                                                                     |         | RBR1-339  |
| - Common timeslot info                          |                           |                                                                                                                                                                                                                              |         | RBR1-340  |
| - 2 <sup>nd</sup> interleaving mode             |                           | Default value is "Frame"                                                                                                                                                                                                     |         | RBR1-341  |
| - TFCI coding                                   |                           | Reference to clause 6 Parameter set                                                                                                                                                                                          |         | RBR1-342  |
| - Puncturing limit                              |                           | Reference to clause 6 Parameter set                                                                                                                                                                                          |         | RBR1-343  |
| - Repetition period                             |                           | 1                                                                                                                                                                                                                            |         | RBR1-344  |
| - Repetition length                             |                           | empty                                                                                                                                                                                                                        |         | RBR1-345  |
| - Uplink DPCH timeslots and code                |                           |                                                                                                                                                                                                                              |         | RBR1-346  |
| - Dynamic SF usage                              |                           | FALSE                                                                                                                                                                                                                        |         | RBR1-347  |
| - First individual timeslot info                |                           |                                                                                                                                                                                                                              |         | RBR1-348  |
| - Timeslot number                               |                           |                                                                                                                                                                                                                              |         | RBR1-349  |
| - CHOICE TDD option                             |                           | 1.28 Mcps TDD                                                                                                                                                                                                                |         | RBR1-350  |
| - Timeslot number                               |                           | 1                                                                                                                                                                                                                            |         | RBR1-351  |
| - TFCI existence                                |                           | TRUE                                                                                                                                                                                                                         |         | RBR1-352  |
| - Midamble shift and burst type                 |                           |                                                                                                                                                                                                                              |         | RBR1-353  |
| - CHOICE TDD option                             |                           | 1.28 Mcps TDD                                                                                                                                                                                                                |         | RBR1-354  |
| - Midamble allocation mode                      |                           | Default midamble                                                                                                                                                                                                             |         | RBR1-355  |
| - Midamble configuration                        |                           | 8 (k=16)                                                                                                                                                                                                                     |         | RBR1-356  |
| - Midamble Shift                                |                           | Not Present                                                                                                                                                                                                                  |         | RBR1-357  |
| - CHOICE TDD option                             |                           | 1.28 Mcps TDD                                                                                                                                                                                                                |         | RBR1-358  |
| - Modulation                                    |                           | QPSK                                                                                                                                                                                                                         |         | RBR1-359  |
| - SS-TPC Symbols                                |                           | 1                                                                                                                                                                                                                            |         | RBR1-360  |
| - Additional TPC-SS Symbols                     |                           | Not present                                                                                                                                                                                                                  |         | RBR1-361  |
| - First timeslot Code List                      |                           | Repeated (1,2) for each channelisation<br>code assigned in the slot to meet the<br>needs of clause 6 Parameter Set.<br>(SF/ i) where i denotes an unassigned<br>code matching the SF specified in<br>clause 6 Parameter Set. |         | RBR1-362  |
| - channelisation codes                          |                           |                                                                                                                                                                                                                              |         | RBR1-363  |
| - CHOICE more timeslots                         |                           | No more timeslots                                                                                                                                                                                                            |         | RBR1-364  |
| - UL CCTrCH List to Remove                      |                           | Not present                                                                                                                                                                                                                  |         | RBR1-365  |
| CHOICE channel requirement                      | A5, A6                    | Not Present                                                                                                                                                                                                                  |         | RBR1-366  |
| E-DCH Info                                      |                           | Not Present                                                                                                                                                                                                                  | Rel-7   | RBR1-367  |
| Multi-carrier E-DCH Info for LCR TDD            |                           | Not Present                                                                                                                                                                                                                  | Rel-10  | RBR1-367a |
| <b>Downlink radio resources</b>                 |                           |                                                                                                                                                                                                                              |         | RBR1-368  |
| CHOICE Mode                                     | A1,A2,A3,A4,<br>A5,A6     | TDD                                                                                                                                                                                                                          |         | RBR1-369  |
| - Downlink PDSCH information                    |                           | No date                                                                                                                                                                                                                      |         | RBR1-370  |
| Downlink HS-PDSCH Information                   | A1, A2, A3,<br>A4, A5, A6 | Not Present                                                                                                                                                                                                                  | Rel-5   | RBR1-371  |
| Downlink information common for all radio links | A5, A6                    | Not Present                                                                                                                                                                                                                  |         | RBR1-372  |

| Information Element                             | Condition      | Value/remark                                       | Version | Index    |
|-------------------------------------------------|----------------|----------------------------------------------------|---------|----------|
| Downlink information common for all radio links | A1, A2, A3     |                                                    |         | RBR1-373 |
| - Downlink DPCH info common for all RL          |                |                                                    |         | RBR1-374 |
| - Timing indication                             |                | Maintain                                           |         | RBR1-375 |
| - CFN-targetSFN frame offset                    |                | Not Present                                        |         | RBR1-376 |
| - Downlink DPCH power control information       |                |                                                    |         | RBR1-377 |
| - CHOICE <i>mode</i>                            |                | TDD                                                |         | RBR1-378 |
| - TPC Step Size                                 |                | 1                                                  |         | RBR1-379 |
| - MAC-d HFN initial value                       |                | Not Present                                        |         | RBR1-380 |
| - CHOICE <i>mode</i>                            |                | TDD                                                |         | RBR1-381 |
| - CHOICE <i>mode</i>                            |                | TDD                                                |         | RBR1-382 |
| - CHOICE <i>TDD option</i>                      |                | 1.28 Mcps TDD                                      |         | RBR1-383 |
| - TSTD indicator                                |                | FALSE                                              |         | RBR1-384 |
| - Default DPCH Offset Value                     |                | Not Present                                        |         | RBR1-385 |
| Downlink information common for all radio links | A4             |                                                    |         | RBR1-386 |
| - Downlink DPCH info common for all RL          |                |                                                    |         | RBR1-387 |
| - Timing indication                             |                | Initialize                                         |         | RBR1-388 |
| - CFN-targetSFN frame offset                    |                | Not Present                                        |         | RBR1-389 |
| - Downlink DPCH power control information       |                |                                                    |         | RBR1-390 |
| - CHOICE <i>mode</i>                            |                | TDD                                                |         | RBR1-391 |
| - TPC Step Size                                 |                | 1                                                  |         | RBR1-392 |
| - MAC-d HFN initial value                       |                | Not Present                                        |         | RBR1-393 |
| - CHOICE <i>mode</i>                            |                | TDD                                                |         | RBR1-394 |
| - CHOICE <i>mode</i>                            |                | TDD                                                |         | RBR1-395 |
| - CHOICE <i>TDD option</i>                      |                | 1.28 Mcps TDD                                      |         | RBR1-396 |
| - TSTD indicator                                |                | FALSE                                              |         | RBR1-397 |
| - Default DPCH Offset Value                     |                |                                                    |         | RBR1-398 |
| - CHOICE <i>mode</i>                            |                | TDD                                                |         | RBR1-399 |
| - Default DPCH Offset Value                     |                | 0                                                  |         | RBR1-400 |
| Downlink information per radio link list        | A1, A2, A3, A4 |                                                    |         | RBR1-401 |
| - Downlink information for each radio link      |                |                                                    |         | RBR1-402 |
| - Choice <i>mode</i>                            |                | TDD                                                |         | RBR1-403 |
| - Primary CCPCH info                            |                |                                                    |         | RBR1-404 |
| - Choice <i>mode</i>                            |                | TDD                                                |         | RBR1-405 |
| - Choice TDD Option                             |                | 1.28 Mcps TDD                                      |         | RBR1-406 |
| - TSTD indicator                                |                | FALSE                                              |         | RBR1-407 |
| - Cell parameters ID                            |                | Reference clause 6.1.4 Default settings for cell 1 |         | RBR1-408 |
| - SCTD indicator                                |                | FALSE                                              |         | RBR1-409 |
| - Downlink DPCH info for each RL                |                |                                                    |         | RBR1-410 |
| - CHOICE <i>mode</i>                            |                | TDD                                                |         | RBR1-411 |
| - DL CCTrCh List                                |                |                                                    |         | RBR1-412 |
| - TFCS ID                                       |                |                                                    |         | RBR1-413 |
| - Time info                                     |                |                                                    |         | RBR1-414 |
| - Activation time                               |                | Now                                                |         | RBR1-415 |
| - Duration                                      |                | Infinite                                           |         | RBR1-416 |
| - Common timeslot info                          |                |                                                    |         | RBR1-417 |
| - 2 <sup>nd</sup> interleaving mode             |                | Default value is "Frame"                           |         | RBR1-418 |
| - TFCI coding                                   |                | Reference to clause 6 Parameter set                |         | RBR1-419 |
| - Puncturing limit                              |                | Reference to clause 6 Parameter set                |         | RBR1-420 |
| - Repetition period                             |                | 1                                                  |         | RBR1-421 |
| - Repetition length                             |                | empty                                              |         | RBR1-422 |
| - Downlink DPCH timeslots and codes             |                |                                                    |         | RBR1-423 |
| - First individual timeslot info                |                |                                                    |         | RBR1-424 |
| - Timeslot number                               |                |                                                    |         | RBR1-425 |
| - CHOICE TDD option                             |                | 1.28 Mcps TDD                                      |         | RBR1-426 |
| - Timeslot number                               |                | 4 OR 5 OR 6                                        |         | RBR1-427 |
| - TFCI existence                                |                | TRUE                                               |         | RBR1-428 |
| - Midamble shift and burst type                 |                |                                                    |         | RBR1-429 |
| - CHOICE TDD option                             |                | 1.28 Mcps TDD                                      |         | RBR1-430 |
| - Midamble allocation mode                      |                | Default midamble                                   |         | RBR1-431 |
| - Midamble configuration                        |                | 8 (k=16)                                           |         | RBR1-432 |
| - Midamble Shift                                |                | Not Present                                        |         | RBR1-433 |
| - CHOICE TDD option                             |                | 1.28 Mcps TDD                                      |         | RBR1-434 |
| - Modulation                                    |                | QPSK                                               |         | RBR1-435 |
| - SS-TPC Symbols                                |                | 1                                                  |         | RBR1-436 |

| Information Element                        | Condition   | Value/remark                                                                                                  | Version                                            | Index              |               |          |
|--------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------|---------------|----------|
| - Additional TPC-SS Symbols                | A5          | Not present                                                                                                   | R99 and Rel-4 only                                 | RBR1-437           |               |          |
| - First timeslot channelisation codes      |             | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |                                                    | RBR1-438           |               |          |
| - CHOICE codes representation              |             | Reference to clause 6.10 Parameter Set                                                                        |                                                    | RBR1-439           |               |          |
| - Channelisation codes bitmap              |             |                                                                                                               |                                                    | RBR1-440           |               |          |
| - CHOICE more timeslots                    |             | No more timeslots                                                                                             |                                                    | RBR1-441           |               |          |
| - UL CCTrCH TPC List                       |             | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.                                   |                                                    | RBR1-442           |               |          |
| - UL TPC TFCS Identity                     |             | 1                                                                                                             |                                                    | RBR1-443           |               |          |
| - TFCS ID                                  |             |                                                                                                               |                                                    | RBR1-444           |               |          |
| - Shared Channel Indicator                 |             | FALSE                                                                                                         |                                                    | RBR1-445           |               |          |
| - DL CCTrCH List to Remove                 |             | Not present                                                                                                   |                                                    | RBR1-446           |               |          |
| - SCCPCH Information for FACH              |             | Not Present                                                                                                   |                                                    | RBR1-447           |               |          |
| - E-AGCH Info                              |             | Not Present                                                                                                   | Rel-6                                              | RBR1-448           |               |          |
| - CHOICE <i>mode</i>                       |             | TDD                                                                                                           | Rel-7                                              | RBR1-449           |               |          |
| - E-HICH Information                       |             | Not Present                                                                                                   | Rel-7                                              | RBR1-450           |               |          |
| Downlink information per radio link list   |             | A6                                                                                                            | Reference clause 6.1.4 Default settings for cell 1 | R99 and Rel-4 only | RBR1-451      |          |
| - Downlink information for each radio link |             |                                                                                                               |                                                    |                    | RBR1-452      |          |
| - Choice mode                              |             |                                                                                                               |                                                    |                    | TDD           | RBR1-453 |
| - Primary CCPCH info                       |             |                                                                                                               |                                                    |                    | RBR1-454      |          |
| - Choice mode                              |             |                                                                                                               |                                                    |                    | TDD           | RBR1-455 |
| - Choice TDD Option                        |             |                                                                                                               |                                                    |                    | 1.28 Mcps TDD | RBR1-456 |
| - TSTD indicator                           |             |                                                                                                               |                                                    |                    | FALSE         | RBR1-457 |
| - Cell parameters ID                       |             |                                                                                                               |                                                    |                    | FALSE         | RBR1-458 |
| - SCTD indicator                           | Not Present |                                                                                                               |                                                    |                    | RBR1-459      |          |
| - Downlink DPCH info for each RL           | Not Present |                                                                                                               |                                                    |                    | RBR1-460      |          |
| - SCCPCH Information for FACH              | Not Present | RBR1-461                                                                                                      |                                                    |                    |               |          |
| - E-AGCH Info                              | Not Present | Rel-6                                                                                                         | Rel-7                                              | RBR1-462           |               |          |
| - CHOICE <i>mode</i>                       |             |                                                                                                               |                                                    | TDD                | RBR1-463      |          |
| - E-HICH Information                       |             |                                                                                                               |                                                    | Not Present        | RBR1-464      |          |
| Downlink information per radio link list   | Not Present | Rel-6                                                                                                         | Rel-9                                              | RBR1-465           |               |          |
| - Downlink information for each radio link |             |                                                                                                               |                                                    | RBR1-466           |               |          |
| MBMS PL Service Restriction Information    |             |                                                                                                               |                                                    | Not Present        | RBR1-467      |          |
| CELL_DCH measurement occasion info LCR     | Not Present |                                                                                                               |                                                    | RBR1-467a          |               |          |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

## Contents of RADIO BEARER RECONFIGURATION message: AM or UM (7.68 Mcps TDD)

| Information Element            | Condition          | Value/remark                                                                                                                                                       | Version | Index    |
|--------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                   | A1,A2,A3, A4,A5,A6 | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBR7-001 |
| <b>UE Information elements</b> |                    |                                                                                                                                                                    |         | RBR7-002 |
| RRC transaction identifier     |                    |                                                                                                                                                                    |         | RBR7-003 |
| Integrity check info           |                    | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | RBR7-004 |
| - message authentication code  |                    |                                                                                                                                                                    |         | RBR7-005 |
| - RRC message sequence number  |                    | SS provides the value of this IE, from its internal counter.                                                                                                       |         | RBR7-006 |
| Integrity protection mode info |                    | Not Present                                                                                                                                                        |         | RBR7-007 |

| Information Element                        | Condition                 | Value/remark                                                                                                            | Version | Index    |
|--------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Ciphering mode info                        | A1,A2,A3<br>A4, A5,A6     | Not Present                                                                                                             |         | RBR7-008 |
| Activation time                            |                           | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                        |         | RBR7-009 |
| Activation time                            |                           | Not Present                                                                                                             |         | RBR7-010 |
| New U-RNTI                                 |                           | MD Integer(0..255) default is 'now'                                                                                     |         | RBR7-011 |
| New C-RNTI                                 | A1, A2, A3,<br>A4,        | Not Present                                                                                                             |         | RBR7-012 |
| New C-RNTI                                 | A5, A6                    | '1010 1010 1010 1010'                                                                                                   |         | RBR7-013 |
| New DSCH-RNTI                              | A1, A2, A3,<br>A4, A5, A6 | Not Present                                                                                                             |         | RBR7-014 |
| New H-RNTI                                 | A1, A2, A3,<br>A4, A5, A6 | Not Present                                                                                                             | Rel-5   | RBR7-015 |
| CHOICE mode                                |                           | TDD                                                                                                                     | Rel-7   | RBR7-016 |
| - New E-RNTI                               |                           | Not Present                                                                                                             | Rel-7   | RBR7-017 |
| RRC State indicator                        | A1, A2, A3,<br>A4         | CELL_DCH<br>Indicates to a UE the RRC state to be entered.                                                              |         | RBR7-018 |
| RRC State indicator                        | A5, A6                    | CELL_FACH                                                                                                               |         | RBR7-019 |
| UTRAN DRX cycle length coefficient         | A1,A2,A3,<br>A4,A5,A6     | Not Present<br>A coefficient in the formula to count the paging occasions to be used by a specific UE                   | Rel-5   | RBR7-020 |
| <b>CN information elements</b>             |                           |                                                                                                                         |         | RBR7-021 |
| CN information info                        |                           | Not Present                                                                                                             |         | RBR7-022 |
| <b>UTRAN mobility information elements</b> |                           |                                                                                                                         |         | RBR7-023 |
| URA identity                               |                           | Not Present                                                                                                             |         | RBR7-024 |
| CHOICE specification mode                  |                           | [FFS]                                                                                                                   |         | RBR7-025 |
| <b>RB information elements</b>             |                           |                                                                                                                         |         | RBR7-026 |
| RAB information to reconfigure list        |                           | Not Present                                                                                                             |         | RBR7-027 |
| RB information to reconfigure list         | A1                        | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".<br>(UM DCCH for RRC) |         | RBR7-028 |
| - RB information to reconfigure            |                           | 1                                                                                                                       |         | RBR7-029 |
| - RB identity                              |                           | Not Present                                                                                                             |         | RBR7-030 |
| - PDCP info                                |                           | Not Present                                                                                                             |         | RBR7-031 |
| - PDCP SN info                             |                           | Not Present                                                                                                             |         | RBR7-032 |
| - RLC info                                 |                           | Not Present                                                                                                             |         | RBR7-033 |
| - RB mapping info                          |                           | Not Present                                                                                                             |         | RBR7-034 |
| - RB stop/continue                         |                           | Not Present                                                                                                             |         | RBR7-035 |
| - RB information to reconfigure            |                           | (AM DCCH for RRC)                                                                                                       |         | RBR7-036 |
| - RB identity                              |                           | 2                                                                                                                       |         | RBR7-037 |
| - PDCP info                                |                           | Not Present                                                                                                             |         | RBR7-038 |
| - PDCP SN info                             |                           | Not Present                                                                                                             |         | RBR7-039 |
| - RLC info                                 |                           | Not Present                                                                                                             |         | RBR7-040 |
| - RB mapping info                          |                           | Not Present                                                                                                             |         | RBR7-041 |
| - RB stop/continue                         |                           | Not Present                                                                                                             |         | RBR7-042 |
| - RB information to reconfigure            |                           | (AM DCCH for NAS_DT High priority)                                                                                      |         | RBR7-043 |
| - RB identity                              |                           | 3                                                                                                                       |         | RBR7-044 |
| - PDCP info                                |                           | Not Present                                                                                                             |         | RBR7-045 |
| - PDCP SN info                             |                           | Not Present                                                                                                             |         | RBR7-046 |
| - RLC info                                 |                           | Not Present                                                                                                             |         | RBR7-047 |
| - RB mapping info                          |                           | Not Present                                                                                                             |         | RBR7-048 |
| - RB stop/continue                         |                           | Not Present                                                                                                             |         | RBR7-049 |
| - RB information to reconfigure            |                           | (AM DCCH for NAS_DT Low priority)                                                                                       |         | RBR7-050 |
| - RB identity                              |                           | 4                                                                                                                       |         | RBR7-051 |
| - PDCP info                                |                           | Not Present                                                                                                             |         | RBR7-052 |
| - PDCP SN info                             |                           | Not Present                                                                                                             |         | RBR7-053 |
| - RLC info                                 |                           | Not Present                                                                                                             |         | RBR7-054 |
| - RB mapping info                          |                           | Not Present                                                                                                             |         | RBR7-055 |
| - RB stop/continue                         |                           | Not Present                                                                                                             |         | RBR7-056 |
| - RB information to reconfigure            |                           | (TM DTCH)                                                                                                               |         | RBR7-057 |
| - RB identity                              |                           | 10                                                                                                                      |         | RBR7-058 |
| - PDCP info                                |                           | Not Present                                                                                                             |         | RBR7-059 |
| - PDCP SN info                             |                           | Not Present                                                                                                             |         | RBR7-060 |
| - RLC info                                 |                           | Not Present                                                                                                             |         | RBR7-061 |
| - RB mapping info                          |                           | Not Present                                                                                                             |         | RBR7-062 |
| - RB stop/continue                         |                           | Not Present                                                                                                             |         | RBR7-063 |



| Information Element                | Condition   | Value/remark                                                                                                            | Version | Index    |
|------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------|---------|----------|
| RB information to reconfigure list | A2          | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".<br>(UM DCCH for RRC) |         | RBR7-064 |
| - RB information to reconfigure    |             | 1                                                                                                                       |         | RBR7-065 |
| - RB identity                      |             | Not Present                                                                                                             |         | RBR7-066 |
| - PDCP info                        |             | Not Present                                                                                                             |         | RBR7-067 |
| - PDCP SN info                     |             | Not Present                                                                                                             |         | RBR7-068 |
| - RLC info                         |             | Not Present                                                                                                             |         | RBR7-069 |
| - RB mapping info                  |             | Not Present                                                                                                             |         | RBR7-070 |
| - RB stop/continue                 |             | Not Present                                                                                                             |         | RBR7-071 |
| - RB information to reconfigure    |             | (AM DCCH for RRC)                                                                                                       |         | RBR7-072 |
| - RB identity                      |             | 2                                                                                                                       |         | RBR7-073 |
| - PDCP info                        |             | Not Present                                                                                                             |         | RBR7-074 |
| - PDCP SN info                     |             | Not Present                                                                                                             |         | RBR7-075 |
| - RLC info                         |             | Not Present                                                                                                             |         | RBR7-076 |
| - RB mapping info                  |             | Not Present                                                                                                             |         | RBR7-077 |
| - RB stop/continue                 |             | Not Present                                                                                                             |         | RBR7-078 |
| - RB information to reconfigure    |             | (AM DCCH for NAS_DT High priority)                                                                                      |         | RBR7-079 |
| - RB identity                      |             | 3                                                                                                                       |         | RBR7-080 |
| - PDCP info                        |             | Not Present                                                                                                             |         | RBR7-081 |
| - PDCP SN info                     |             | Not Present                                                                                                             |         | RBR7-082 |
| - RLC info                         |             | Not Present                                                                                                             |         | RBR7-083 |
| - RB mapping info                  |             | Not Present                                                                                                             |         | RBR7-084 |
| - RB stop/continue                 |             | Not Present                                                                                                             |         | RBR7-085 |
| - RB information to reconfigure    |             | (AM DCCH for NAS_DT Low priority)                                                                                       |         | RBR7-086 |
| - RB identity                      |             | 4                                                                                                                       |         | RBR7-087 |
| - PDCP info                        |             | Not Present                                                                                                             |         | RBR7-088 |
| - PDCP SN info                     |             | Not Present                                                                                                             |         | RBR7-089 |
| - RLC info                         |             | Not Present                                                                                                             |         | RBR7-090 |
| - RB mapping info                  |             | Not Present                                                                                                             |         | RBR7-091 |
| - RB stop/continue                 |             | Not Present                                                                                                             |         | RBR7-092 |
| - RB information to reconfigure    |             | (TM DTCH)                                                                                                               |         | RBR7-093 |
| - RB identity                      |             | 10                                                                                                                      |         | RBR7-094 |
| - PDCP info                        |             | Not Present                                                                                                             |         | RBR7-095 |
| - PDCP SN info                     |             | Not Present                                                                                                             |         | RBR7-096 |
| - RLC info                         |             | Not Present                                                                                                             |         | RBR7-097 |
| - RB mapping info                  |             | Not Present                                                                                                             |         | RBR7-098 |
| - RB stop/continue                 |             | Not Present                                                                                                             |         | RBR7-099 |
| - RB information to reconfigure    |             | (TM DTCH)                                                                                                               |         | RBR7-100 |
| - RB identity                      |             | 11                                                                                                                      |         | RBR7-101 |
| - PDCP info                        |             | Not Present                                                                                                             |         | RBR7-102 |
| - PDCP SN info                     |             | Not Present                                                                                                             |         | RBR7-103 |
| - RLC info                         |             | Not Present                                                                                                             |         | RBR7-104 |
| - RB mapping info                  |             | Not Present                                                                                                             |         | RBR7-105 |
| - RB stop/continue                 |             | Not Present                                                                                                             |         | RBR7-106 |
| - RB information to reconfigure    |             | (TM DTCH)                                                                                                               |         | RBR7-107 |
|                                    |             | (This IE is needed for 12.2 kbps and 10.2 kbps)                                                                         |         |          |
| - RB identity                      |             | 12                                                                                                                      |         | RBR7-108 |
| - PDCP info                        |             | Not Present                                                                                                             |         | RBR7-109 |
| - PDCP SN info                     |             | Not Present                                                                                                             |         | RBR7-110 |
| - RLC info                         |             | Not Present                                                                                                             |         | RBR7-111 |
| - RB mapping info                  |             | Not Present                                                                                                             |         | RBR7-112 |
| - RB stop/continue                 |             | Not Present                                                                                                             |         | RBR7-113 |
| RB information to reconfigure list | A3,A4,A5,A6 | TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".<br>(UM DCCH for RRC) |         | RBR7-114 |
| - RB information to reconfigure    |             | 1                                                                                                                       |         | RBR7-115 |
| - RB identity                      |             | Not Present                                                                                                             |         | RBR7-116 |
| - PDCP info                        |             | Not Present                                                                                                             |         | RBR7-117 |
| - PDCP SN info                     |             | Not Present                                                                                                             |         | RBR7-118 |
| - RLC info                         |             | Not Present                                                                                                             |         | RBR7-119 |
| - RB mapping info                  |             | Not Present                                                                                                             |         | RBR7-120 |
| - RB stop/continue                 |             | Not Present                                                                                                             |         | RBR7-121 |
| - RB information to reconfigure    |             | (AM DCCH for RRC)                                                                                                       |         | RBR7-122 |
| - RB identity                      |             | 2                                                                                                                       |         | RBR7-123 |
| - PDCP info                        |             | Not Present                                                                                                             |         | RBR7-124 |

| Information Element                                         | Condition                  | Value/remark                                                                                                  | Version | Index    |
|-------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------|---------|----------|
| - PDCP SN info                                              |                            | Not Present                                                                                                   |         | RBR7-125 |
| - RLC info                                                  |                            | Not Present                                                                                                   |         | RBR7-126 |
| - RB mapping info                                           |                            | Not Present                                                                                                   |         | RBR7-127 |
| - RB stop/continue                                          |                            | Not Present                                                                                                   |         | RBR7-128 |
| - RB information to reconfigure                             |                            | (AM DCCH for NAS_DT High priority)                                                                            |         | RBR7-129 |
| - RB identity                                               |                            | 3                                                                                                             |         | RBR7-130 |
| - PDCP info                                                 |                            | Not Present                                                                                                   |         | RBR7-131 |
| - PDCP SN info                                              |                            | Not Present                                                                                                   |         | RBR7-132 |
| - RLC info                                                  |                            | Not Present                                                                                                   |         | RBR7-133 |
| - RB mapping info                                           |                            | Not Present                                                                                                   |         | RBR7-134 |
| - RB stop/continue                                          |                            | Not Present                                                                                                   |         | RBR7-135 |
| - RB information to reconfigure                             |                            | (AM DCCH for NAS_DT Low priority)                                                                             |         | RBR7-136 |
| - RB identity                                               |                            | 4                                                                                                             |         | RBR7-137 |
| - PDCP info                                                 |                            | Not Present                                                                                                   |         | RBR7-138 |
| - PDCP SN info                                              |                            | Not Present                                                                                                   |         | RBR7-139 |
| - RLC info                                                  |                            | Not Present                                                                                                   |         | RBR7-140 |
| - RB mapping info                                           |                            | Not Present                                                                                                   |         | RBR7-141 |
| - RB stop/continue                                          |                            | Not Present                                                                                                   |         | RBR7-142 |
| - RB information to reconfigure                             |                            | (AM DTCH)                                                                                                     |         | RBR7-143 |
| - RB identity                                               |                            | 20                                                                                                            |         | RBR7-144 |
| - PDCP info                                                 |                            | Not Present                                                                                                   |         | RBR7-145 |
| - PDCP SN info                                              |                            | Not Present                                                                                                   |         | RBR7-146 |
| - RLC info                                                  |                            | Not Present                                                                                                   |         | RBR7-147 |
| - RB mapping info                                           |                            | Not Present                                                                                                   |         | RBR7-148 |
| - RB stop/continue                                          |                            | Not Present                                                                                                   |         | RBR7-149 |
| RB information to be affected                               | A1, A2,<br>A3,A4,A5,<br>A6 | Not Present                                                                                                   |         | RBR7-150 |
| <b>TrCH Information Elements</b>                            |                            |                                                                                                               |         | RBR7-151 |
| <b>Uplink transport channels</b>                            |                            |                                                                                                               |         | RBR7-152 |
| UL Transport channel information for all transport channels | A1, A2,<br>A5,A6           | Not Present                                                                                                   |         | RBR7-153 |
| UL Transport channel information for all transport channels | A3, A4                     |                                                                                                               |         | RBR7-154 |
| - PRACH TFCS                                                |                            | Not Present                                                                                                   |         | RBR7-155 |
| - CHOICE mode                                               |                            | TDD                                                                                                           |         | RBR7-156 |
| - Individual UL CCTrCH information                          |                            |                                                                                                               |         | RBR7-157 |
| - UL TFCS Identity                                          |                            |                                                                                                               |         | RBR7-158 |
| - TFCS ID                                                   |                            | 1                                                                                                             |         | RBR7-159 |
| - Shared Channel Indicator                                  |                            | FALSE                                                                                                         |         | RBR7-160 |
| - UL TFCS                                                   |                            |                                                                                                               |         | RBR7-161 |
| - CHOICE <i>TFCS signalling</i>                             |                            | Normal<br>(another option "split" only for FDD)                                                               |         | RBR7-162 |
| - TFCS Field 1 Information                                  |                            |                                                                                                               |         | RBR7-163 |
| - CHOICE <i>TFCS representation</i>                         |                            | Complete reconfiguration                                                                                      |         | RBR7-164 |
| information                                                 |                            |                                                                                                               |         | RBR7-165 |
| - TFCS complete reconfiguration                             |                            |                                                                                                               |         |          |
| - CHOICE <i>CTFC Size</i>                                   |                            | Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.11 Parameter Set. |         | RBR7-166 |
| - CTFC information                                          |                            | This IE is repeated for TFC numbers and reference to TS34.108 clause 6.11 Parameter Set                       |         | RBR7-167 |
| - CTFC                                                      |                            | Reference to TS34.108 clause 6.11 Parameter Set                                                               |         | RBR7-168 |
| - Power offset information                                  |                            |                                                                                                               |         | RBR7-169 |
| - CHOICE Gain Factors                                       |                            | Computed Gain Factors<br>(The last TFC is set to Signalled Gain Factors)                                      |         | RBR7-170 |
| - Reference TFC ID                                          |                            | 0 Integer(0.. 3)                                                                                              |         | RBR7-171 |
| - CHOICE Gain Factors                                       |                            | Signalled Gain Factors<br>(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)             |         | RBR7-172 |

| Information Element                                                                           | Condition             | Value/remark                                       | Version | Index                                        |
|-----------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------|---------|----------------------------------------------|
| - CHOICE <i>mode</i><br>- Gain Factor $\beta_d$<br>- Reference TFC ID<br>- CHOICE <i>mode</i> |                       | TDD<br>15<br>0 Integer(0.. 3)<br>TDD               |         | RBR7-173<br>RBR7-174<br>RBR7-175<br>RBR7-176 |
| - TFC subset                                                                                  |                       |                                                    |         | RBR7-177                                     |
| - CHOICE <i>Subset representation</i>                                                         |                       | Minimum allowed Transport format combination index |         | RBR7-178                                     |
| - Allowed transport format combination list                                                   |                       | Not present                                        |         | RBR7-179                                     |
| - Non-allowed transport format combination list                                               |                       | Not present                                        |         | RBR7-180                                     |
| - Non-allowed transport format combination list                                               |                       | Not present                                        |         | RBR7-181                                     |
| - Full transport format combination set                                                       |                       | Not present                                        |         | RBR7-182                                     |
| - TFC subset list                                                                             |                       | Not present                                        |         | RBR7-183                                     |
| Deleted TrCH information list                                                                 |                       |                                                    |         | RBR7-184                                     |
| Deleted UL TrCH information                                                                   | A1, A2, A3, A4, A5,A6 | Not Present                                        |         | RBR7-185                                     |
| Added or Reconfigured TrCH information list                                                   |                       |                                                    |         | RBR7-186                                     |
| Added or Reconfigured UL TrCH information                                                     | A1, A2, A5,A6 A4      | Not Present                                        |         | RBR7-187                                     |
| Added or Reconfigured UL TrCH information                                                     |                       | 2 TrCHs(DCH for DCCH and DCH for DTCH)<br>DCH<br>5 |         | RBR7-188<br>RBR7-189<br>RBR7-190<br>RBR7-191 |
| - Uplink transport channel type                                                               |                       | Dedicated transport channels                       |         | RBR7-192                                     |
| - UL Transport channel identity                                                               |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-193                                     |
| - TFS                                                                                         |                       | (This IE is repeated for TFI number.)              |         | RBR7-194                                     |
| - CHOICE Transport channel type                                                               |                       | Not Present                                        |         | RBR7-195                                     |
| - Dynamic Transport format information                                                        |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-196                                     |
| - RLC Size                                                                                    |                       | All                                                |         | RBR7-197                                     |
| - Number of TBs and TTI List                                                                  |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-198                                     |
| - Transmission Time Interval                                                                  |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-199                                     |
| - Number of Transport blocks                                                                  |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-200                                     |
| - CHOICE Logical Channel list                                                                 |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-201                                     |
| - Semi-static Transport Format information                                                    |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-202                                     |
| - Transmission time interval                                                                  |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-203                                     |
| - Type of channel coding                                                                      |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-204                                     |
| - Coding Rate                                                                                 |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-205                                     |
| - Rate matching attribute                                                                     |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-206                                     |
| - CRC size                                                                                    |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-207                                     |
| - Uplink transport channel type                                                               |                       | DCH                                                |         | RBR7-208                                     |
| - UL Transport channel identity                                                               |                       | 1                                                  |         | RBR7-209                                     |
| - TFS                                                                                         |                       | Dedicated transport channels                       |         | RBR7-210                                     |
| - CHOICE Transport channel type                                                               |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-211                                     |
| - Dynamic Transport format information                                                        |                       | (This IE is repeated for TFI number.)              |         | RBR7-212                                     |
| - RLC Size                                                                                    |                       | Not Present                                        |         | RBR7-213                                     |
| - Number of TBs and TTI List                                                                  |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-214                                     |
| - Transmission Time Interval                                                                  |                       | All                                                |         | RBR7-215                                     |
| - Number of Transport blocks                                                                  |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-216                                     |
| - CHOICE Logical Channel list                                                                 |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-217                                     |
| - Semi-static Transport Format information                                                    |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-218                                     |
| - Transmission time interval                                                                  |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-219                                     |
| - Type of channel coding                                                                      |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-220                                     |
| - Coding Rate                                                                                 |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-221                                     |
| - Rate matching attribute                                                                     |                       | Reference to TS34.108 clause 6.11 Parameter Set    |         | RBR7-222                                     |

| Information Element                                               | Condition                | Value/remark                                                                                                            | Version | Index    |
|-------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------|---------|----------|
| - CRC size                                                        |                          | Reference to TS34.108 clause 6.11<br>Parameter Set                                                                      |         | RBR7-220 |
| Added or Reconfigured UL TrCH information                         | A3                       | (DCH for DTCH)<br>DCH<br>1                                                                                              |         | RBR7-221 |
| - Uplink transport channel type                                   |                          |                                                                                                                         |         | RBR7-222 |
| - UL Transport channel identity                                   |                          |                                                                                                                         |         | RBR7-223 |
| - TFS                                                             |                          |                                                                                                                         |         | RBR7-224 |
| - CHOICE Transport channel type                                   |                          | Dedicated transport channels                                                                                            |         | RBR7-225 |
| - Dynamic Transport format information                            |                          |                                                                                                                         |         | RBR7-226 |
| - RLC Size                                                        |                          | Reference to TS34.108 clause 6.11<br>Parameter Set                                                                      |         | RBR7-227 |
| - Number of TBs and TTI List                                      |                          | (This IE is repeated for TFI number.)                                                                                   |         | RBR7-228 |
| - Transmission Time Interval                                      |                          | Not Present                                                                                                             |         | RBR7-229 |
| - Number of Transport blocks                                      |                          | Reference to TS34.108 clause 6.11<br>Parameter Set                                                                      |         | RBR7-230 |
| - CHOICE Logical Channel list                                     |                          | All                                                                                                                     |         | RBR7-231 |
| - Semi-static Transport Format information                        |                          |                                                                                                                         |         | RBR7-232 |
| - Transmission time interval                                      |                          | Reference to TS34.108 clause 6.11<br>Parameter Set                                                                      |         | RBR7-233 |
| - Type of channel coding                                          |                          | Reference to TS34.108 clause 6.11<br>Parameter Set                                                                      |         | RBR7-234 |
| - Coding Rate                                                     |                          | Reference to TS34.108 clause 6.11<br>Parameter Set                                                                      |         | RBR7-235 |
| - Rate matching attribute                                         |                          | Reference to TS34.108 clause 6.11<br>Parameter Set                                                                      |         | RBR7-236 |
| - CRC size                                                        |                          | Reference to TS34.108 clause 6.11<br>Parameter Set                                                                      |         | RBR7-237 |
| CHOICE mode                                                       | A1,A2,A3,<br>A4,A5,A6    | TDD                                                                                                                     |         | RBR7-238 |
| - (no data)                                                       |                          |                                                                                                                         |         | RBR7-239 |
| <b>Downlink transport channels</b>                                |                          |                                                                                                                         |         | RBR7-240 |
| DL Transport channel information common for all transport channel | A1, A2, A5,<br>A6        | Not Present                                                                                                             |         | RBR7-241 |
| DL Transport channel information common for all transport channel | A3,A4                    |                                                                                                                         |         | RBR7-242 |
| - SCCPCH TFCS                                                     |                          | Not Present                                                                                                             |         | RBR7-243 |
| - CHOICE mode                                                     |                          | TDD                                                                                                                     |         | RBR7-244 |
| - Individual DL CCTrCH information                                |                          |                                                                                                                         |         | RBR7-245 |
| - DL TFCS Identity                                                |                          |                                                                                                                         |         | RBR7-246 |
| - TFCS ID                                                         |                          |                                                                                                                         |         | RBR7-247 |
| - Shared Channel Indicator                                        |                          |                                                                                                                         |         | RBR7-248 |
| - CHOICE <i>DL parameters</i>                                     |                          | Independent                                                                                                             |         | RBR7-249 |
| - DL TFCS                                                         |                          |                                                                                                                         |         | RBR7-250 |
| - CHOICE <i>TFCI signalling</i>                                   |                          | Normal<br>(Normal' : meaning no split in the TFCI field either 'Logical' or 'Hard')                                     |         | RBR7-251 |
| - TFCI Field 1 Information                                        |                          |                                                                                                                         |         | RBR7-252 |
| - CHOICE <i>TFCS representation</i>                               |                          | Complete reconfiguration                                                                                                |         | RBR7-253 |
| - TFCS complete reconfiguration information                       |                          |                                                                                                                         |         | RBR7-254 |
| - CHOICE CTFC Size                                                |                          | Number of bits used must be enough to cover all combinations of CTFC from clause TS34.108 clause 6.11<br>Parameter Set. |         | RBR7-255 |
| - CTFC information                                                |                          | This IE is repeated for TFC numbers and reference to TS34.108 clause 6.11                                               |         | RBR7-256 |
| - CTFC                                                            |                          | Reference to TS34.108 clause 6.11<br>Parameter Set                                                                      |         | RBR7-257 |
| - Power offset                                                    |                          | Not Present                                                                                                             |         | RBR7-258 |
| information                                                       |                          |                                                                                                                         |         |          |
| Deleted TrCH information list                                     |                          |                                                                                                                         |         | RBR7-259 |
| Deleted DL TrCH information                                       | A1, A2, A3,<br>A4, A5,A6 | Not Present                                                                                                             |         | RBR7-260 |
| Added or Reconfigured TrCH information list                       |                          |                                                                                                                         |         | RBR7-261 |
| Added or Reconfigured DL TrCH information                         | A1, A2, A5,<br>A6        | Not Present                                                                                                             |         | RBR7-262 |
| Added or Reconfigured DL TrCH information                         | A4                       | 2 TrCHs(DCH for DCCH and DCH for DTCH)                                                                                  |         | RBR7-263 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Condition             | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Version | Index                                                                                                                                                                                                                                                                                                                                            |
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| <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format information</li> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Dynamic transport format information</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul> |                       | DCH<br>10<br>Same as UL<br>DCH<br>5<br><br>Not Present<br>DCH<br>6<br>Explicit<br><br>Dedicated transport channel<br><br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>(This IE is repeated for TFI number.)<br><br>Not Present<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br><br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br><br>-20 (-2.0) |         | RBR7-264<br>RBR7-265<br>RBR7-266<br>RBR7-267<br>RBR7-268<br>RBR7-269<br>RBR7-270<br>RBR7-271<br>RBR7-272<br>RBR7-273<br>RBR7-274<br>RBR7-275<br>RBR7-276<br>RBR7-277<br><br>RBR7-278<br>RBR7-279<br>RBR7-280<br>RBR7-281<br><br>RBR7-282<br>RBR7-283<br><br>RBR7-284<br><br>RBR7-285<br><br>RBR7-286<br><br>RBR7-287<br><br>RBR7-288<br>RBR7-289 |
| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format information</li> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Dynamic transport format information</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul>                                                                                                                                                                                                            | A3                    | DCH<br>6<br>Explicit<br><br>Dedicated transport channel<br><br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>(This IE is repeated for TFI number.)<br><br>Not Present<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br><br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br><br>-20 (-2.0)                                                                                                                 |         | RBR7-290<br>RBR7-291<br>RBR7-292<br>RBR7-293<br>RBR7-294<br>RBR7-295<br>RBR7-296<br>RBR7-297<br><br>RBR7-298<br>RBR7-299<br>RBR7-300<br>RBR7-301<br><br>RBR7-302<br>RBR7-303<br><br>RBR7-304<br><br>RBR7-305<br><br>RBR7-306<br><br>RBR7-307<br><br>RBR7-308<br>RBR7-309                                                                         |
| Preconfiguration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A1,A2,A3,<br>A4,A5,A6 | [FFS]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rel-5   | RBR7-310                                                                                                                                                                                                                                                                                                                                         |
| <b>PhyCH information elements</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         | RBR7-311                                                                                                                                                                                                                                                                                                                                         |
| Frequency info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A1,A2,A3,<br>A4,A5    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         | RBR7-312                                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>- CHOICE mode</li> <li>- UARFCN (Nt)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | TDD<br>Reference to clause 5.1 Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         | RBR7-313<br>RBR7-314                                                                                                                                                                                                                                                                                                                             |

| Information Element                     | Condition             | Value/remark                                                                                                            | Version | Index    |
|-----------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------|---------|----------|
|                                         |                       | frequencies                                                                                                             |         |          |
| Frequency info                          | A6                    | Not Present                                                                                                             |         | RBR7-315 |
| DTX-DRX timing information              |                       | Not Present                                                                                                             | Rel-7   | RBR7-316 |
| DTX-DRX information                     |                       | Not Present                                                                                                             | Rel-7   | RBR7-317 |
| HS-SCCH less information                |                       | Not Present                                                                                                             | Rel-7   | RBR7-318 |
| MIMO parameters                         |                       | Not Present                                                                                                             | Rel-7   | RBR7-319 |
| <b>Uplink radio resources</b>           |                       |                                                                                                                         |         | RBR7-320 |
| Maximum allowed UL TX power             | A1,A2,A3,<br>A4,A5,A6 | 33dBm                                                                                                                   |         | RBR7-321 |
| CHOICE channel requirement              | A1, A2, A3,<br>A4     | Uplink DPCH info                                                                                                        |         | RBR7-322 |
| -Uplink DPCH power control info         |                       |                                                                                                                         |         | RBR7-323 |
| - CHOICE mode                           |                       | TDD                                                                                                                     |         | RBR7-324 |
| - UL target SIR                         |                       | 6                                                                                                                       |         | RBR7-325 |
| - CHOICE <i>UL OL PC info</i>           |                       | Individually Signalled                                                                                                  |         | RBR7-326 |
| - CHOICE TDD option                     |                       | 7.68 Mcps TDD                                                                                                           | Rel-7   | RBR7-327 |
| - Individual timeslot interference info |                       | Reference to TS34.108 clause 6.11<br>Parameter Set                                                                      |         | RBR7-328 |
| - Individual timeslot interference      |                       |                                                                                                                         |         | RBR7-329 |
| - CHOICE TDD option                     |                       | 7.68 Mcps TDD                                                                                                           | Rel-7   | RBR7-330 |
| - Timeslot number                       |                       | As required by, Reference to TS34.108<br>clause 6.11 Parameter Set                                                      |         | RBR7-331 |
| - TDD UL interference                   |                       | As required by, Reference to TS34.108<br>clause 6.11 Parameter Set (if not<br>specified -60 dBm)                        |         | RBR7-332 |
| - Primary CCPCH Tx Power                |                       | 18 Integer(6..43) (-70 dBm Received if<br>pathloss not specified)                                                       |         | RBR7-333 |
| - CHOICE mode                           |                       | TDD                                                                                                                     |         | RBR7-334 |
| - Uplink Timing Advance Control         |                       | Enabled                                                                                                                 |         | RBR7-335 |
| - CHOICE <i>Timing Advance</i>          |                       | 7.68 Mcps TDD (Default)                                                                                                 | Rel-7   | RBR7-336 |
| - CHOICE <i>TDD option</i>              |                       |                                                                                                                         |         | RBR7-337 |
| - UL CCTrCh List                        |                       |                                                                                                                         |         | RBR7-338 |
| - TFCS ID                               |                       | 1                                                                                                                       |         | RBR7-339 |
| - UL Target SIR                         |                       | Real (-11 .. 20 by step of 0.5dB)<br>Reference to TS34.108 Parameter set.                                               |         | RBR7-340 |
| - Time info                             |                       |                                                                                                                         |         | RBR7-341 |
| - Activation time                       |                       | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                        |         | RBR7-342 |
| - Duration                              |                       | infinite                                                                                                                |         | RBR7-343 |
| - Common timeslot info                  |                       |                                                                                                                         |         | RBR7-344 |
| - 2 <sup>nd</sup> interleaving mode     |                       | Default value is "Frame"                                                                                                |         | RBR7-345 |
| - TFCI coding                           |                       | Reference to TS34.108 clause 6<br>Parameter set                                                                         |         | RBR7-346 |
| - Puncturing limit                      |                       | Reference to TS34.108 clause 6<br>Parameter set                                                                         |         | RBR7-347 |
| - Repetition period                     |                       | 1                                                                                                                       |         | RBR7-348 |
| - Repetition length                     |                       | empty                                                                                                                   |         | RBR7-349 |
| - Uplink DPCH timeslots and code        |                       |                                                                                                                         |         | RBR7-350 |
| - Dynamic SF usage                      |                       | FALSE                                                                                                                   |         | RBR7-351 |
| - First individual timeslot info        |                       |                                                                                                                         |         | RBR7-352 |
| - Timeslot number                       |                       |                                                                                                                         |         | RBR7-353 |
| - CHOICE TDD option                     |                       | 7.68 Mcps TDD                                                                                                           | Rel-7   | RBR7-354 |
| - Timeslot number                       |                       | 1 OR 2 OR 3                                                                                                             |         | RBR7-355 |
| - TFCI existence                        |                       | TRUE                                                                                                                    |         | RBR7-356 |
| - Midamble shift and burst type         |                       |                                                                                                                         |         | RBR7-357 |
| - CHOICE TDD option                     |                       | 7.68 Mcps TDD                                                                                                           | Rel-7   | RBR7-358 |
| - CHOICE <i>Burst Type</i>              |                       | Type 1                                                                                                                  |         | RBR7-359 |
| - Midamble allocation mode              |                       | Default midamble                                                                                                        |         | RBR7-360 |
| - Midamble configuration                |                       | 8                                                                                                                       |         | RBR7-361 |
| - Midamble Shift                        |                       | Not Present                                                                                                             |         | RBR7-362 |
| - CHOICE TDD option                     |                       | 7.68 Mcps TDD (No Data)                                                                                                 | Rel-4   | RBR7-363 |
| - First timeslot Code List              |                       | Repeated (1,2) for each channelisation<br>code assigned in the slot to meet the<br>needs of TS34.108 clause 6 Parameter |         | RBR7-364 |

| Information Element                             | Condition                 | Value/remark                                                                                                     | Version | Index    |
|-------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------|---------|----------|
| - channelisation codes                          |                           | Set.<br>(SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. |         | RBR7-365 |
| - CHOICE more timeslots                         |                           | No more timeslots (No Data)                                                                                      |         | RBR7-366 |
| - UL CCTrCH List to Remove                      |                           | Not present                                                                                                      |         | RBR7-367 |
| CHOICE channel requirement                      | A5, A6                    | Not Present                                                                                                      |         | RBR7-368 |
| E-DCH info                                      |                           | Not Present                                                                                                      | Rel-6   | RBR7-369 |
| <b>Downlink radio resources</b>                 |                           |                                                                                                                  |         | RBR7-370 |
| CHOICE Mode                                     | A1,A2,A3,<br>A4,A5,A6     | TDD                                                                                                              |         | RBR7-371 |
| - Downlink PDSCH information                    |                           | No date                                                                                                          |         | RBR7-372 |
| Downlink HS-PDSCH Information                   | A1, A2, A3,<br>A4, A5, A6 | Not Present                                                                                                      | Rel-5   | RBR7-373 |
| Downlink information common for all radio links | A5, A6                    | Not Present                                                                                                      |         | RBR7-374 |
| Downlink information common for all radio links | A1, A2, A3                |                                                                                                                  |         | RBR7-375 |
| - Downlink DPCH info common for all RL          |                           |                                                                                                                  |         | RBR7-376 |
| - Timing indication                             |                           | Maintain                                                                                                         |         | RBR7-377 |
| - CFN-targetSFN frame offset                    |                           | Not Present                                                                                                      |         | RBR7-378 |
| - Downlink DPCH power control information       |                           |                                                                                                                  |         | RBR7-379 |
| - CHOICE <i>mode</i>                            |                           | TDD                                                                                                              |         | RBR7-380 |
| - TPC Step Size                                 |                           | 1                                                                                                                |         | RBR7-381 |
| - MAC-d HFN initial value                       |                           | Not Present                                                                                                      |         | RBR7-382 |
| - CHOICE <i>mode</i>                            |                           | TDD                                                                                                              |         | RBR7-383 |
| - CHOICE <i>mode</i>                            |                           | TDD                                                                                                              |         | RBR7-384 |
| - CHOICE <i>TDD option</i>                      |                           | 7.68 Mcps TDD (No Data)                                                                                          | Rel-7   | RBR7-385 |
| - Default DPCH Offset Value                     |                           | Not Present                                                                                                      |         | RBR7-386 |
| Downlink information common for all radio links |                           |                                                                                                                  |         | RBR7-387 |
| - Downlink DPCH info common for all RL          |                           |                                                                                                                  |         | RBR7-388 |
| - Timing indication                             |                           | Initialise                                                                                                       |         | RBR7-389 |
| - CFN-targetSFN frame offset                    |                           | Not Present                                                                                                      |         | RBR7-390 |
| - Downlink DPCH power control information       |                           |                                                                                                                  |         | RBR7-391 |
| - CHOICE <i>mode</i>                            |                           | TDD                                                                                                              |         | RBR7-392 |
| - TPC Step Size                                 |                           | 1                                                                                                                |         | RBR7-393 |
| - MAC-d HFN initial value                       |                           | Not Present                                                                                                      |         | RBR7-394 |
| - CHOICE <i>mode</i>                            |                           | TDD                                                                                                              |         | RBR7-395 |
| - CHOICE <i>mode</i>                            |                           | TDD                                                                                                              |         | RBR7-396 |
| - CHOICE <i>TDD option</i>                      |                           | 7.68 Mcps TDD (no Data)                                                                                          | Rel-7   | RBR7-397 |
| - Default DPCH Offset Value                     |                           |                                                                                                                  |         | RBR7-398 |
| - CHOICE <i>mode</i>                            |                           | TDD                                                                                                              |         | RBR7-399 |
| - Default DPCH Offset Value                     |                           | 0                                                                                                                |         | RBR7-400 |
| Downlink information per radio link list        | A1, A2, A3,<br>A4         |                                                                                                                  |         | RBR7-401 |
| - Downlink information for each radio link      |                           |                                                                                                                  |         | RBR7-402 |
| - Choice <i>mode</i>                            |                           | TDD                                                                                                              |         | RBR7-403 |
| - Primary CCPCH info                            |                           |                                                                                                                  |         | RBR7-404 |
| - Choice <i>mode</i>                            |                           | TDD                                                                                                              |         | RBR7-405 |
| - Choice TDD Option                             |                           | 7.68 Mcps TDD                                                                                                    | Rel-7   | RBR7-406 |
| - CHOICE <i>SyncCase</i>                        |                           | Sync Case 1                                                                                                      |         | RBR7-407 |
| - Timeslot                                      |                           | Reference clause 6.1.4 Default settings for cell 1                                                               |         | RBR7-408 |
| - SSTD indicator                                |                           | FALSE                                                                                                            |         | RBR7-409 |
| - Downlink DPCH info for each RL                |                           |                                                                                                                  |         | RBR7-410 |
| - CHOICE <i>mode</i>                            |                           | 7.68 Mcps TDD                                                                                                    | Rel-7   | RBR7-411 |
| - DL CCTrCh List                                |                           |                                                                                                                  |         | RBR7-412 |
| - TFCS ID                                       |                           | Identity of this CCTrCh. Default value is 1                                                                      |         | RBR7-413 |
| - Time info                                     |                           |                                                                                                                  |         | RBR7-414 |
| - Activation time                               |                           | Now                                                                                                              |         | RBR7-415 |
| - Duration                                      |                           | Infinite                                                                                                         |         | RBR7-416 |
| - Common timeslot info                          |                           |                                                                                                                  |         | RBR7-417 |
| - 2 <sup>nd</sup> interleaving mode             |                           | Default value is "Frame"                                                                                         |         | RBR7-418 |
| - TFCI coding                                   |                           | Reference to TS34.108 clause 6                                                                                   |         | RBR7-419 |
| - Puncturing limit                              |                           | Parameter set                                                                                                    |         | RBR7-420 |
| - Repetition period                             |                           | Reference to TS34.108 clause 6                                                                                   |         | RBR7-421 |
|                                                 |                           | Parameter set                                                                                                    |         | RBR7-421 |
|                                                 |                           | 1                                                                                                                |         | RBR7-421 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Version                                                                | Index                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VHCR <ul style="list-style-type: none"> <li>- Repetition length</li> <li>- Downlink DPCH timeslots and codes</li> <li>- First individual timeslot info</li> <li>- Timeslot number</li> <li>- CHOICE TDD option</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | empty                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Rel-7                                                                  | RBR7-422<br>RBR7-423                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 7.68 Mcps TDD                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rel-7                                                                  | RBR7-424<br>RBR7-425<br>RBR7-426                                                                                                                                                                                                             |
| VHCR <ul style="list-style-type: none"> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble shift and burst type</li> <li>- CHOICE TDD option</li> <li>- CHOICE <i>Burst Type</i></li> <li>- Midamble allocation mode</li> <li>- Midamble configuration</li> <li>- Midamble Shift</li> <li>- CHOICE TDD option</li> <li>- First timeslot channelisation codes</li> <li>- CHOICE codes representation</li> <li>- Channelisation codes bitmap</li> <li>- CHOICE more timeslots</li> <li>- UL CCTrCH TPC List</li> <li>- UL TPC TFCS Identity</li> <li>- TFCS ID</li> <li>- Shared Channel Indicator</li> <li>- DL CCTrCH List to Remove</li> <li>- SCCPCH Information for FACH</li> </ul> |           | 4 OR 5 OR 6<br>TRUE<br><br>7.68 Mcps TDD<br>Type 1<br>Default midamble<br>8<br>Not Present<br>7.68 Mcps TDD (No Data)<br>Repeated (1,2) for each channelisation<br>code assigned in the slot to meet the<br>needs of TS34.108 clause 6.11<br>Parameter Set.<br>Bitmap<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>No more timeslots (No Data)<br>Default (is previous list or all defined UL<br>CCTrCHs.)<br><br>1<br>FALSE<br>Not present<br>Not Present | Rel-7<br><br><br><br>Rel-7<br><br><br><br><br>R99 and<br>Rel-4<br>only | RBR7-427<br>RBR7-428<br>RBR7-429<br>RBR7-430<br>RBR7-431<br>RBR7-432<br>RBR7-433<br>RBR7-434<br>RBR7-435<br>RBR7-436<br><br>RBR7-437<br>RBR7-438<br><br>RBR7-439<br>RBR7-440<br><br>RBR7-441<br>RBR7-442<br>RBR7-443<br>RBR7-444<br>RBR7-445 |
| Downlink information per radio link list <ul style="list-style-type: none"> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CCPCH info</li> <li>- Choice mode</li> <li>- Choice TDD Option</li> <li>- TSTD indicator</li> <li>- Cell parameters ID</li> <li>- SCTD indicator</li> </ul>                                                                                                                                                                                                                                                                                                                                                                        | A5        | TDD<br><br>TDD<br>7.68 Mcps TDD<br>FALSE<br>Reference clause 6.1.4 Default settings<br>for cell 1<br>FALSE                                                                                                                                                                                                                                                                                                                                                             | Rel-7                                                                  | RBR7-446<br>RBR7-447<br>RBR7-448<br>RBR7-449<br>RBR7-450<br>RBR7-451<br>RBR7-452<br>RBR7-453<br><br>RBR7-454                                                                                                                                 |
| - Downlink DPCH info for each RL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        | RBR7-455                                                                                                                                                                                                                                     |
| - SCCPCH Information for FACH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                            | R99 and<br>Rel-4<br>only                                               | RBR7-456                                                                                                                                                                                                                                     |
| Downlink information per radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A6        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                        | RBR7-457                                                                                                                                                                                                                                     |
| - Downlink information for each radio link                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        | RBR7-458                                                                                                                                                                                                                                     |
| MBMS PL Service Restriction Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rel-6                                                                  | RBR7-459                                                                                                                                                                                                                                     |

| Condition | Explanation                                                 |
|-----------|-------------------------------------------------------------|
| A1        | This IE need for "Non speech in CS"                         |
| A2        | This IE need for "Speech in CS"                             |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"   |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"  |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"  |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS" |

Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM (3.84 Mcps TDD)

| Information Element                        | Value/remark                                                                                                       | Version |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------|
| Message Type<br>RRC transaction identifier | Checked to see if the value is identical to the<br>same IE in the downlink RADIO BEARER<br>RECONFIGURATION message |         |



|                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                      |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Integrity check info<br>- Message authentication code<br><br>- RRC Message sequence number<br><br>Uplink integrity protection activation info<br>CHOICE mode<br>- CHOICE <i>TDD option</i><br>- UL Timing Advance<br>COUNT-C activation time<br>Radio bearer uplink ciphering activation time info<br>Uplink counter synchronisation info | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.<br>The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.<br>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.<br>Not checked<br>TDD<br>3.84 Mcps TDD<br>0<br>Not checked<br>Not checked<br>Not checked | Rel-4 |
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## Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM (1.28 Mcps TDD)

| Information Element                                                                                                                                                                                                                                                                                                                                                  | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Version |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type<br>RRC transaction identifier<br><br>Integrity check info<br>- Message authentication code<br><br>- RRC Message sequence number<br><br>Uplink integrity protection activation info<br>CHOICE mode<br>- CHOICE <i>TDD option</i><br>COUNT-C activation time<br>Radio bearer uplink ciphering activation time info<br>Uplink counter synchronization info | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION message<br><br>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.<br>The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.<br>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.<br>Not checked<br>TDD<br>1.28 Mcps TDD (No data)<br>Not checked<br>Not checked<br>Not checked | Rel-4   |

## Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM (7.68 Mcps TDD)

| Information Element                                                                                                                                                                                                                                                                                                                                                                                  | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Version        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Message Type<br>RRC transaction identifier<br><br>Integrity check info<br>- Message authentication code<br><br>- RRC Message sequence number<br><br>Uplink integrity protection activation info<br>CHOICE mode<br>- CHOICE <i>TDD option</i><br>- Extended UL Timing Advance<br>COUNT-C activation time<br>Radio bearer uplink ciphering activation time info<br>Uplink counter synchronisation info | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION message<br><br>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.<br>The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.<br>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.<br>Not checked<br>TDD<br>7.68 Mcps TDD<br>0<br>Not checked<br>Not checked<br>Not checked | Rel-7<br>Rel-7 |

## Contents of RADIO BEARER RECONFIGURATION FAILURE message: AM

| Information Element                                               | Value/remark                                                                                                                                                                                         |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                      | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RECONFIGURATION message.                                                                                  |
| RRC transaction identifier                                        |                                                                                                                                                                                                      |
| Integrity check info                                              | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code                                     |                                                                                                                                                                                                      |
| - RRC Message sequence number                                     | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                                     | Checked to see if it meets test requirement                                                                                                                                                          |
| Radio bearers for which reconfiguration would have succeeded List | Not checked                                                                                                                                                                                          |

Contents of RADIO BEARER RELEASE message: AM or UM (3.84 Mcps TDD)

| Information Element                      | Condition                      | Value/remark                                                                                                                                                                                                                    | Version | Index    |
|------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                             | A1, A2, A3, A4, A5, A6, A7, A8 |                                                                                                                                                                                                                                 |         | RBL3-001 |
|                                          | , A9, A10                      |                                                                                                                                                                                                                                 | Rel-5   | RBL3-002 |
| RRC transaction identifier               |                                | Arbitrarily selects an integer between 0 and 3                                                                                                                                                                                  |         | RBL3-003 |
| Integrity check info                     |                                | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. SS provides the value of this IE, from its internal counter. |         | RBL3-004 |
| - message authentication code            |                                |                                                                                                                                                                                                                                 |         | RBL3-005 |
| - RRC message sequence number            |                                |                                                                                                                                                                                                                                 |         | RBL3-006 |
| Integrity protection mode info           |                                | Not Present                                                                                                                                                                                                                     |         | RBL3-007 |
| Ciphering mode info                      |                                | Not Present                                                                                                                                                                                                                     |         | RBL3-008 |
| Activation time                          | A1, A2, A3, A7, A8             | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                                                                                |         | RBL3-009 |
| Activation time                          | A4, A5, A6                     | Not Present                                                                                                                                                                                                                     |         | RBL3-010 |
|                                          | , A9, A10                      |                                                                                                                                                                                                                                 | Rel-5   | RBL3-011 |
| New U-RNTI                               |                                | Not Present                                                                                                                                                                                                                     |         | RBL3-012 |
| New C-RNTI                               | A1,A2,A3,A4                    | Not Present                                                                                                                                                                                                                     |         | RBL3-013 |
|                                          | , A9                           |                                                                                                                                                                                                                                 | Rel-5   | RBL3-014 |
| New C-RNTI                               | A5, A6, A7, A8                 | '1010 1010 1010 1010'                                                                                                                                                                                                           |         | RBL3-015 |
|                                          | , A10                          |                                                                                                                                                                                                                                 | Rel-5   | RBL3-016 |
| New DSCH-RNTI                            | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present                                                                                                                                                                                                                     |         | RBL3-017 |
| New H-RNTI                               | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present                                                                                                                                                                                                                     |         | RBL3-018 |
|                                          | , A9, A10,                     |                                                                                                                                                                                                                                 | Rel-5   | RBL3-019 |
| New Primary E-RNTI                       |                                | Not Present                                                                                                                                                                                                                     | Rel-6   | RBL3-020 |
| New Secondary E-RNTI                     |                                | Not Present                                                                                                                                                                                                                     | Rel-6   | RBL3-021 |
| RRC State indicator                      | A1,A2, A3, A4                  | CELL_DCH                                                                                                                                                                                                                        |         | RBL3-022 |
|                                          | , A9                           |                                                                                                                                                                                                                                 | Rel-5   | RBL3-023 |
| RRC State indicator                      | A5, A6, A7, A8                 | CELL_FACH                                                                                                                                                                                                                       |         | RBL3-024 |
|                                          | , A10                          |                                                                                                                                                                                                                                 | Rel-5   | RBL3-025 |
| UTRAN DRX cycle length coefficient       | A1,A2,A3,A4                    | Not Present                                                                                                                                                                                                                     |         | RBL3-026 |
|                                          | ,A5,A6, A7, A8                 |                                                                                                                                                                                                                                 |         |          |
|                                          | , A9, A10                      |                                                                                                                                                                                                                                 | Rel-5   | RBL3-027 |
| CN information info                      |                                | Not Present                                                                                                                                                                                                                     |         | RBL3-028 |
| Signalling Connection release indication |                                | Not Present                                                                                                                                                                                                                     |         | RBL3-029 |

| Information Element                                                | Condition                            | Value/remark                                                      | Version | Index    |
|--------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------|---------|----------|
| URA identity                                                       |                                      | Not Present                                                       |         | RBL3-030 |
| RAB information to reconfigure list                                |                                      | Not Present                                                       |         | RBL3-031 |
| RB information to release list                                     | A1, A7                               |                                                                   |         | RBL3-032 |
| RB information to release                                          |                                      |                                                                   |         | RBL3-033 |
| - RB identity                                                      |                                      | 10                                                                |         | RBL3-034 |
| RB information to release list                                     | A2, A8                               |                                                                   |         | RBL3-035 |
| RB information to release                                          |                                      |                                                                   |         | RBL3-036 |
| - RB identity                                                      |                                      | 10                                                                |         | RBL3-037 |
| RB information to release                                          |                                      |                                                                   |         | RBL3-038 |
| - RB identity                                                      |                                      | 11                                                                |         | RBL3-039 |
| RB information to release                                          |                                      |                                                                   |         | RBL3-040 |
| - RB identity                                                      |                                      | 12                                                                |         | RBL3-041 |
| RB information to release list                                     | A3, A4, A5, A6                       |                                                                   |         | RBL3-042 |
| RB information to release                                          |                                      |                                                                   |         | RBL3-043 |
| - RB identity                                                      |                                      | 20                                                                |         | RBL3-044 |
| RB information to release                                          | A9, A10                              |                                                                   | Rel-5   | RBL3-045 |
| - RB identity                                                      |                                      | 25                                                                |         | RBL3-046 |
| RB information to reconfigure list                                 | A1,A2, A3,A4,A5, A6, A7, A8, A9, A10 | Not Present                                                       | Rel-6   | RBL3-047 |
| RB information to be affected list                                 | A1,A2, A3,A4,A5, A6, A7, A8          | Not Present                                                       |         | RBL3-048 |
|                                                                    | , A9, A10                            |                                                                   | Rel-5   | RBL3-049 |
| Downlink counter synchronisation info                              | A1,A2,A3,A4 ,A5,A6, A7, A8           | Not Present                                                       |         | RBL3-050 |
|                                                                    | , A9, A10                            |                                                                   | Rel-5   | RBL3-051 |
| UL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8       | TFCS reconfigured to fit the new transport channel configuration. |         | RBL3-052 |
|                                                                    | , A9, A10                            |                                                                   | Rel-5   | RBL3-053 |
| Deleted TrCH information list                                      | A1,A2, A3, A5, A7, A8                |                                                                   |         | RBL3-054 |
|                                                                    | , A9, A10                            |                                                                   | Rel-5   | RBL3-055 |
| Deleted UL TrCH Information                                        | A1,A2, A3, A5, A7, A8                |                                                                   |         | RBL3-056 |
|                                                                    | , A9, A10                            |                                                                   | Rel-5   | RBL3-057 |
| - Uplink transport channel type                                    |                                      | DCH 1                                                             |         | RBL3-058 |
| - Transport channel identity                                       |                                      |                                                                   |         | RBL3-059 |
| Deleted UL TrCH Information                                        | A2, A8                               | DCH 2                                                             |         | RBL3-060 |
| - Uplink transport channel type                                    |                                      |                                                                   |         | RBL3-061 |
| - Transport channel identity                                       |                                      |                                                                   |         | RBL3-062 |
| Deleted UL TrCH Information                                        | A2, A8                               | DCH 3                                                             |         | RBL3-063 |
| - Uplink transport channel type                                    |                                      |                                                                   |         | RBL3-064 |
| - Transport channel identity                                       |                                      |                                                                   |         | RBL3-065 |
| Deleted TrCH information list                                      | A4, A6                               | Not Present                                                       |         | RBL3-066 |
| Added or Reconfigured TrCH information list                        | A5, A6, A7, A8                       | Not Present                                                       |         | RBL3-067 |
|                                                                    | , A10                                |                                                                   | Rel-5   | RBL3-068 |
| Added or Reconfigured TrCH information list                        | A1, A2, A3, A4                       | TrCHs (DCH for DCCH )                                             |         | RBL3-069 |
|                                                                    | , A9                                 |                                                                   | Rel-5   | RBL3-070 |
| Added or Reconfigured UL TrCH information                          |                                      | DCH 5                                                             |         | RBL3-071 |
| - Uplink transport channel type                                    |                                      |                                                                   |         | RBL3-072 |
| - UL Transport channel identity                                    |                                      |                                                                   |         | RBL3-073 |
| - TFS                                                              |                                      |                                                                   |         | RBL3-074 |
| - CHOICE Transport channel type                                    |                                      | Dedicated transport channels                                      |         | RBL3-075 |
| - Dynamic Transport format information                             |                                      |                                                                   |         | RBL3-076 |
| - RLC Size                                                         |                                      |                                                                   |         | RBL3-077 |
| - Number of TBs and TTI List                                       |                                      | Reference to TS34.108 clause 6.10                                 |         | RBL3-078 |
| - Transmission Time Interval                                       |                                      | Parameter Set                                                     |         | RBL3-079 |
| - Number of Transport blocks                                       |                                      | (This IE is repeated for TFI number.)                             |         | RBL3-080 |
|                                                                    |                                      | Not present                                                       |         |          |
|                                                                    |                                      | Reference to TS34.108 clause 6.10                                 |         |          |

| Information Element                                                                                                                                                                                                                                                               | Condition                      | Value/remark                                                                                                                                                                                                                                                                                                  | Version            | Index                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>- CHOICE Logical Channel list</li><li>- Semi-static Transport Format information</li><li>- Transmission time interval</li><li>- Type of channel coding</li><li>- Coding Rate</li><li>- Rate matching attribute</li><li>- CRC size</li></ul> |                                | Parameter Set<br>All (NULL)<br><br>Reference to TS34.108 clause 6.10<br>Parameter Set<br>Reference to TS34.108 clause 6.10<br>Parameter Set<br>Reference to TS34.108 clause 6.10<br>Parameter Set<br>Reference to TS34.108 clause 6.10<br>Parameter Set<br>Reference to TS34.108 clause 6.10<br>Parameter Set |                    | RBL3-081<br>RBL3-082<br>RBL3-083<br><br>RBL3-084<br><br>RBL3-085<br><br>RBL3-086<br><br>RBL3-087 |
| CHOICE <i>mode</i>                                                                                                                                                                                                                                                                |                                | TDD (No data)                                                                                                                                                                                                                                                                                                 | R99 and Rel-4 only | RBL3-088                                                                                         |
| DL Transport channel information common for all transport channels                                                                                                                                                                                                                | A1, A2, A3, A4, A5, A6, A7, A8 | TFCS reconfigured to fit the new transport channel configuration.                                                                                                                                                                                                                                             |                    | RBL3-089                                                                                         |
|                                                                                                                                                                                                                                                                                   | , A9, A10                      |                                                                                                                                                                                                                                                                                                               | Rel-5              | RBL3-090                                                                                         |
| Deleted TrCH information list                                                                                                                                                                                                                                                     |                                | DCH<br>6<br><br>DCH<br>7<br><br>DCH<br>8                                                                                                                                                                                                                                                                      |                    | RBL3-091                                                                                         |
| - Deleted DL TrCH Information                                                                                                                                                                                                                                                     | A1, A2, A3, A4, A5, A6, A7, A8 |                                                                                                                                                                                                                                                                                                               |                    | RBL3-092                                                                                         |
|                                                                                                                                                                                                                                                                                   | , A9                           |                                                                                                                                                                                                                                                                                                               | Rel-5              | RBL3-093                                                                                         |
| <ul style="list-style-type: none"><li>- Downlink transport channel type</li><li>- Transport channel identity</li></ul>                                                                                                                                                            | A2, A8                         |                                                                                                                                                                                                                                                                                                               |                    | RBL3-094                                                                                         |
| - Deleted DL TrCH Information                                                                                                                                                                                                                                                     |                                |                                                                                                                                                                                                                                                                                                               |                    | RBL3-095                                                                                         |
| <ul style="list-style-type: none"><li>- Downlink transport channel type</li><li>- Transport channel identity</li></ul>                                                                                                                                                            | A2, A8                         |                                                                                                                                                                                                                                                                                                               |                    | RBL3-096                                                                                         |
| - Deleted DL TrCH Information                                                                                                                                                                                                                                                     |                                |                                                                                                                                                                                                                                                                                                               | RBL3-097           |                                                                                                  |
| <ul style="list-style-type: none"><li>- Downlink transport channel type</li><li>- Transport channel identity</li></ul>                                                                                                                                                            | A2, A8                         |                                                                                                                                                                                                                                                                                                               | RBL3-098           |                                                                                                  |
| - Deleted DL TrCH Information                                                                                                                                                                                                                                                     |                                |                                                                                                                                                                                                                                                                                                               | RBL3-099           |                                                                                                  |
| <ul style="list-style-type: none"><li>- Downlink transport channel type</li><li>- Transport channel identity</li></ul>                                                                                                                                                            | A2, A8                         |                                                                                                                                                                                                                                                                                                               | RBL3-100           |                                                                                                  |
| - Deleted DL TrCH Information                                                                                                                                                                                                                                                     |                                |                                                                                                                                                                                                                                                                                                               | RBL3-101           |                                                                                                  |
| - Deleted DL TrCH Information                                                                                                                                                                                                                                                     | A9, A10                        |                                                                                                                                                                                                                                                                                                               | Rel-5              | RBL3-102                                                                                         |
| <ul style="list-style-type: none"><li>- Downlink transport channel type</li><li>- DL HS-DSCH MAC-d flow identity</li></ul>                                                                                                                                                        |                                | HS-DSCH                                                                                                                                                                                                                                                                                                       |                    | RBL3-103                                                                                         |
|                                                                                                                                                                                                                                                                                   |                                | 0                                                                                                                                                                                                                                                                                                             |                    | RBL3-104                                                                                         |
| Added or Reconfigured TrCH information list                                                                                                                                                                                                                                       |                                | Not Present                                                                                                                                                                                                                                                                                                   |                    | RBL3-105                                                                                         |
| - Added or Reconfigured DL TrCH information                                                                                                                                                                                                                                       | A5, A6, A7, A8                 |                                                                                                                                                                                                                                                                                                               |                    | RBL3-106                                                                                         |
|                                                                                                                                                                                                                                                                                   | , A10                          |                                                                                                                                                                                                                                                                                                               | Rel-5              | RBL3-107                                                                                         |
| - Added or Reconfigured DL TrCH information                                                                                                                                                                                                                                       | A1, A2, A3, A4                 | 1 TrCHs (DCH for DCCH)                                                                                                                                                                                                                                                                                        |                    | RBL3-108                                                                                         |
| <ul style="list-style-type: none"><li>- Downlink transport channel type</li><li>- DL Transport channel identity</li></ul>                                                                                                                                                         |                                | DCH                                                                                                                                                                                                                                                                                                           |                    | RBL3-109                                                                                         |
| - DL Transport channel identity                                                                                                                                                                                                                                                   |                                | 10                                                                                                                                                                                                                                                                                                            |                    | RBL3-110                                                                                         |
| - CHOICE DL parameters                                                                                                                                                                                                                                                            |                                | Same as UL                                                                                                                                                                                                                                                                                                    |                    | RBL3-111                                                                                         |
| - Uplink transport channel type                                                                                                                                                                                                                                                   |                                | DCH                                                                                                                                                                                                                                                                                                           |                    | RBL3-112                                                                                         |
| - UL TrCH identity                                                                                                                                                                                                                                                                |                                | 5                                                                                                                                                                                                                                                                                                             |                    | RBL3-113                                                                                         |
| - DCH quality target                                                                                                                                                                                                                                                              |                                |                                                                                                                                                                                                                                                                                                               |                    | RBL3-114                                                                                         |
| - BLER Quality value                                                                                                                                                                                                                                                              |                                | Not Present                                                                                                                                                                                                                                                                                                   |                    | RBL3-115                                                                                         |
| Frequency info                                                                                                                                                                                                                                                                    | A1, A2, A3, A4, A5, A7, A8     | TDD<br>Reference to clause 5.1 Test frequencies                                                                                                                                                                                                                                                               |                    | RBL3-116                                                                                         |
| <ul style="list-style-type: none"><li>- Choice mode</li><li>- UARFCN (Nt)</li></ul>                                                                                                                                                                                               | , A9, A10                      |                                                                                                                                                                                                                                                                                                               | Rel-5              | RBL3-117<br>RBL3-118<br>RBL3-119                                                                 |
| Frequency info                                                                                                                                                                                                                                                                    | A6                             | Not Present                                                                                                                                                                                                                                                                                                   |                    | RBL3-120                                                                                         |
| Maximum allowed UL TX power                                                                                                                                                                                                                                                       |                                | 33dBm                                                                                                                                                                                                                                                                                                         |                    | RBL3-121                                                                                         |
| CHOICE <i>channel requirement</i>                                                                                                                                                                                                                                                 | A5, A6 , A7, A8                | Not Present                                                                                                                                                                                                                                                                                                   | R99 and Rel-4 only | RBL3-122                                                                                         |
| CHOICE <i>channel requirement</i>                                                                                                                                                                                                                                                 | A1, A2, A3, A4                 | Uplink DPCH info                                                                                                                                                                                                                                                                                              | R99 and Rel-4 only | RBL3-123                                                                                         |
| Uplink DPCH info                                                                                                                                                                                                                                                                  | A10                            | Not Present                                                                                                                                                                                                                                                                                                   | Rel-5              | RBL3-124                                                                                         |
| Uplink DPCH info                                                                                                                                                                                                                                                                  | A9                             | Not Present<br>TDD<br>Not Present                                                                                                                                                                                                                                                                             | Rel-5              | RBL3-125                                                                                         |
| <ul style="list-style-type: none"><li>- Uplink DPCH power control info</li></ul>                                                                                                                                                                                                  |                                |                                                                                                                                                                                                                                                                                                               |                    | RBL3-126                                                                                         |
| - CHOICE mode                                                                                                                                                                                                                                                                     |                                |                                                                                                                                                                                                                                                                                                               |                    | RBL3-127                                                                                         |
| <ul style="list-style-type: none"><li>- Uplink Timing Advance Control</li></ul>                                                                                                                                                                                                   |                                |                                                                                                                                                                                                                                                                                                               |                    | RBL3-128                                                                                         |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Condition                               | Value/remark                                                                                                           | Version            | Index    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| <ul style="list-style-type: none"> <li>- UL CCTrCH List</li> <li>- TFCS ID</li> <li>- UL Target SIR</li> <li>- Time info</li> <li>- Activation time</li> <li>- Duration</li> <li>- Common timeslot info</li> <li>- 2<sup>nd</sup> interleaving mode</li> <li>- TFCI coding</li> <li>- Puncturing limit</li> <li>- Repetition period</li> <li>- Repetition length</li> <li>- Uplink DPCH timeslots and code</li> <li>- Dynamic SF usage</li> <li>- First individual timeslot info</li> <li>- Timeslot number</li> <li>- CHOICE TDD option</li> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble shift and burst type</li> <li>- CHOICE TDD option</li> <li>- CHOICE <i>Burst Type</i></li> <li>- Midamble allocation mode</li> <li>- Midamble configuration</li> <li>- Midamble Shift</li> <li>- CHOICE TDD option</li> <li>- First timeslot Code List</li> <li>- channelisation codes</li> <li>- CHOICE more timeslots</li> <li>- UL CCTrCH List to Remove</li> </ul> |                                         | 1                                                                                                                      |                    | RBL3-129 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | +20dB                                                                                                                  |                    | RBL3-130 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                                                                        |                    | RBL3-131 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                                                                        |                    | RBL3-132 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                       |                    | RBL3-133 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | Infinite                                                                                                               |                    | RBL3-134 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                                                                        |                    | RBL3-135 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | Default value is "Frame"                                                                                               |                    | RBL3-136 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | Reference to TS34.108 clause 6                                                                                         |                    | RBL3-137 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | Parameter set                                                                                                          |                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | Reference to TS34.108 clause 6                                                                                         |                    | RBL3-138 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | Parameter set                                                                                                          |                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | 1                                                                                                                      |                    | RBL3-139 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                                                                        |                    | RBL3-140 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | FALSE                                                                                                                  |                    | RBL3-141 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                                                                        |                    | RBL3-142 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                                                                        |                    | RBL3-143 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                                                                        |                    | RBL3-144 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | 3.84 Mcps TDD                                                                                                          |                    | RBL3-145 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | 1 OR 2 OR 3                                                                                                            |                    | RBL3-146 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | TRUE                                                                                                                   |                    | RBL3-147 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                                                                        |                    | RBL3-148 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | 3.84 Mcps TDD                                                                                                          |                    | RBL3-149 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | Type 1                                                                                                                 |                    | RBL3-150 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | Default midamble                                                                                                       |                    | RBL3-151 |
| E-DCH Info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Not Present                             | 16                                                                                                                     |                    | RBL3-152 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | Not Present                                                                                                            |                    | RBL3-153 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | 3.84 Mcps TDD (no data)                                                                                                |                    | RBL3-154 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. |                    | RBL3-155 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set.               |                    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | No more timeslots                                                                                                      |                    | RBL3-156 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | Not present                                                                                                            |                    | RBL3-157 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                                                                        |                    | RBL3-158 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                                                                        | Rel-6              | RBL3-159 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                                                                        | R99 and Rel-4 only | RBL3-160 |
| CHOICE Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A1, A2, A3, A4, A5, A6, A7, A8          | TDD                                                                                                                    |                    |          |
| Downlink HS-PDSCH Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                            | Rel-5              | RBL3-161 |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A5, A6, A7, A8, A10                     | Not Present                                                                                                            |                    | RBL3-162 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                                                                        | Rel-5              | RBL3-163 |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1, A2, A3, A9                          |                                                                                                                        | Rel-5              | RBL3-164 |
| - CHOICE DPCH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         | Downlink DPCH info common for all RL                                                                                   | Rel-6              | RBL3-165 |
| - Downlink DPCH info common for all RL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |                                                                                                                        |                    | RBL3-166 |
| - Timing indication                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         | Maintain                                                                                                               |                    | RBL3-167 |
| - CFN-targetSFN frame offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         | Not Present                                                                                                            |                    | RBL3-168 |
| - Downlink DPCH power control information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                                                                                                        |                    | RBL3-169 |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         | TDD                                                                                                                    |                    | RBL3-170 |
| - TPC Step Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         | 1                                                                                                                      |                    | RBL3-171 |
| - MAC-d HFN initial value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         | Not Present                                                                                                            |                    | RBL3-172 |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         | TDD                                                                                                                    |                    | RBL3-173 |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         | TDD                                                                                                                    |                    | RBL3-174 |
| - CHOICE TDD option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         | 3.84 Mcps TDD                                                                                                          |                    | RBL3-175 |
| - Default DPCH Offset Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         | Not Present                                                                                                            |                    | RBL3-176 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                                                                        |                    | RBL3-177 |

| Information Element                             | Condition      | Value/remark                                                                                                           | Version | Index    |
|-------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------|---------|----------|
| - MAC-hs reset indicator                        |                | Not Present                                                                                                            | Rel-5   | RBL3-178 |
| Downlink information common for all radio links | A4             |                                                                                                                        |         | RBL3-179 |
| - CHOICE DPCH info                              |                | Downlink DPCH info common for all RL                                                                                   | Rel-6   | RBL3-180 |
| - Downlink DPCH info common for all RL          |                | Initialise                                                                                                             |         | RBL3-181 |
| - Timing indication                             |                | Not Present                                                                                                            |         | RBL3-182 |
| - CFN-targetSFN frame offset                    |                |                                                                                                                        |         | RBL3-183 |
| - Downlink DPCH power control information       |                |                                                                                                                        |         | RBL3-184 |
| - CHOICE mode                                   |                | TDD                                                                                                                    |         | RBL3-185 |
| - TPC Step Size                                 |                | 1                                                                                                                      |         | RBL3-186 |
| - MAC-d HFN initial value                       |                | Not Present                                                                                                            |         | RBL3-187 |
| - CHOICE mode                                   |                | TDD                                                                                                                    |         | RBL3-188 |
| - CHOICE mode                                   |                | TDD                                                                                                                    |         | RBL3-189 |
| - CHOICE TDD option                             |                | 3.84 Mcps TDD                                                                                                          |         | RBL3-190 |
| - Default DPCH Offset Value                     |                |                                                                                                                        |         | RBL3-191 |
| - CHOICE mode                                   |                | TDD                                                                                                                    |         | RBL3-192 |
| - Default DPCH Offset Value                     |                | 0 Integer(0..7)                                                                                                        |         | RBL3-193 |
| - MAC-hs reset indicator                        |                | Not Present                                                                                                            | Rel-5   | RBL3-194 |
| Downlink information per radio link list        | A1, A2, A3, A4 |                                                                                                                        |         | RBL3-195 |
|                                                 | , A9           |                                                                                                                        | Rel-5   | RBL3-196 |
| - Downlink information for each radio link      |                | TDD                                                                                                                    |         | RBL3-197 |
| - Choice mode                                   |                |                                                                                                                        |         | RBL3-198 |
| - Primary CCPCH info                            |                |                                                                                                                        |         | RBL3-199 |
| - Choice mode                                   |                | TDD                                                                                                                    |         | RBL3-200 |
| - Choice TDD Option                             |                | 3.84 Mcps TDD                                                                                                          |         | RBL3-201 |
| - Cell parameters ID                            |                | Ref. to the Default setting in TS34.108 clause 6.1 (TDD)                                                               |         | RBL3-202 |
| - SCTD indicator                                |                | Integer(0..127)                                                                                                        |         | RBL3-203 |
| - CHOICE DPCH info                              |                | FALSE                                                                                                                  |         | RBL3-204 |
| - Downlink DPCH info for each RL                |                | Downlink DPCH info for each RL                                                                                         | Rel-6   | RBL3-205 |
| - CHOICE mode                                   |                | TDD                                                                                                                    |         | RBL3-206 |
| - DL CCTrCh List                                |                |                                                                                                                        |         | RBL3-207 |
| - TFCS ID                                       |                | 2 Integer(1.8)                                                                                                         |         | RBL3-208 |
| - Time info                                     |                |                                                                                                                        |         | RBL3-209 |
| - Activation time                               |                | Now                                                                                                                    |         | RBL3-210 |
| - Duration                                      |                | Infinite                                                                                                               |         | RBL3-211 |
| - Common timeslot info                          |                |                                                                                                                        |         | RBL3-212 |
| - 2 <sup>nd</sup> interleaving mode             |                | Default value is "Frame"                                                                                               |         | RBL3-213 |
| - TFCI coding                                   |                | Reference to TS34.108 clause 6 Parameter set                                                                           |         | RBL3-214 |
| - Puncturing limit                              |                | Reference to TS34.108 clause 6 Parameter set                                                                           |         | RBL3-215 |
| - Repetition period                             |                | 1                                                                                                                      |         | RBL3-216 |
| - Repetition length                             |                | NULL                                                                                                                   |         | RBL3-217 |
| - Downlink DPCH timeslots and codes             |                |                                                                                                                        |         | RBL3-218 |
| - First individual timeslot info                |                |                                                                                                                        |         | RBL3-219 |
| - Timeslot number                               |                |                                                                                                                        |         | RBL3-220 |
| - CHOICE TDD option                             |                | 3.84 Mcps TDD                                                                                                          |         | RBL3-221 |
| - Timeslot number                               |                | 4 OR 5 OR 6                                                                                                            |         | RBL3-222 |
| - TFCI existence                                |                | TRUE                                                                                                                   |         | RBL3-223 |
| - Midamble shift and burst type                 |                |                                                                                                                        |         | RBL3-224 |
| - CHOICE TDD option                             |                | 3.84 Mcps TDD                                                                                                          |         | RBL3-225 |
| - Midamble allocation mode                      |                | Default midamble                                                                                                       |         | RBL3-226 |
| - Midamble configuration                        |                | 16                                                                                                                     |         | RBL3-227 |
| - Midamble Shift                                |                | Not Present                                                                                                            |         | RBL3-228 |
| - CHOICE TDD option                             |                | 3.84 Mcps TDD (no data)                                                                                                |         | RBL3-229 |
| - First timeslot channelisation codes           |                | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. |         | RBL3-230 |
| - CHOICE codes representation                   |                | Bitmap                                                                                                                 |         | RBL3-231 |
| - Channelisation codes bitmap                   |                | Reference to TS34.108 clause 6.10 Parameter Set                                                                        |         | RBL3-232 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Condition                            | Value/remark                                                                                                                                                                                                | Version                                                                       | Index                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- CHOICE more timeslots</li> <li>- UL CCTrCH TPC List</li> <li>- DL CCTrCH List to Remove</li> <li>- SCCPCH Information for FACH</li> <li>- E-AGCH Info</li> <li>- CHOICE E-HICH Information</li> <li>- CHOICE E-RGCH Information</li> </ul>                                                                                                                                                                                                                                |                                      | No more timeslots<br>Default is all<br>Not present<br>Not Present<br><br>Not present<br>Not present<br>Not present                                                                                          | R99 and Rel-4 only<br>Rel-6<br>Rel-6<br>Rel-6                                 | RBL3-233<br>RBL3-234<br>RBL3-235<br>RBL3-236<br><br>RBL3-237<br>RBL3-238<br>RBL3-239                                                                                     |
| Downlink information per radio link list <ul style="list-style-type: none"> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CCPCH info</li> <li>- Choice mode</li> <li>- Choice TDD Option</li> <li>- TSTD indicator</li> <li>- Cell parameters ID</li> <li>- SCTD indicator</li> <li>- E-AGCH Info</li> <li>- CHOICE E-HICH Information</li> <li>- CHOICE E-RGCH Information</li> <li>- Downlink DPCH info for each RL</li> <li>- SCCPCH Information for FACH</li> </ul> | A5 ,A7, A8                           | TDD<br><br>TDD<br>3.84 Mcps TDD<br>FALSE<br>Ref. to the Default setting in TS34.108 clause 6.1 (TDD)<br>Integer(0..127)<br>FALSE<br>Not present<br>Not present<br>Not present<br>Not Present<br>Not Present | <br><br><br><br><br><br><br>Rel-6<br>Rel-6<br>Rel-6<br><br>R99 and Rel-4 only | RBL3-240<br>RBL3-241<br>RBL3-242<br>RBL3-243<br>RBL3-244<br>RBL3-245<br>RBL3-246<br>RBL3-247<br><br>RBL3-248<br>RBL3-249<br>RBL3-250<br>RBL3-251<br>RBL3-252<br>RBL3-253 |
| Downlink information per radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A6                                   | Not Present                                                                                                                                                                                                 |                                                                               | RBL3-254                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | , A10                                |                                                                                                                                                                                                             | Rel-5                                                                         | RBL3-255                                                                                                                                                                 |
| MBMS PL Service Restriction Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A1,A2, A3,A4,A5, A6, A7, A8, A9, A10 | Not Present                                                                                                                                                                                                 | Rel-6                                                                         | RBL3-256                                                                                                                                                                 |
| MBMS RB list released to change transfer mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      | Not Present                                                                                                                                                                                                 | Rel-6                                                                         | RBL3-257                                                                                                                                                                 |

| Condition | Explanation                                                                                                                                                                 | Version |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| A1        | This IE need for "Non speech in CS"                                                                                                                                         | Rel-5   |
| A2        | This IE need for "Speech in CS"                                                                                                                                             |         |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"                                                                                                                   |         |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"                                                                                                                  |         |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"                                                                                                                  |         |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS"                                                                                                                 |         |
| A7        | This IE need for "Non speech to CELL_FACH from CELL_DCH in CS"                                                                                                              |         |
| A8        | This IE need for "Speech to CELL_FACH from CELL_DCH in CS"                                                                                                                  |         |
| A9        | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH from CELL_DCH / HS-DSCH in PS" |         |
| A10       | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_FACH from CELL_DCH / HS-DSCH in PS"   | Rel-5   |

Contents of RADIO BEARER RELEASE message: AM or UM (1.28 Mcps TDD)

| Information Element           | Condition                      | Value/remark                                                                                                                                                       | Version | Index    |
|-------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                  | A1, A2, A3, A4, A5, A6, A7, A8 |                                                                                                                                                                    |         | RBL1-001 |
|                               | , A9, A10                      |                                                                                                                                                                    | Rel-5   | RBL1-002 |
| RRC transaction identifier    |                                | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBL1-003 |
| Integrity check info          |                                |                                                                                                                                                                    |         | RBL1-004 |
| - message authentication code |                                | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | RBL1-005 |
| - RRC message sequence number |                                | SS provides the value of this IE, from its                                                                                                                         |         | RBL1-006 |

| Information Element                      | Condition                      | Value/remark                     | Version | Index     |
|------------------------------------------|--------------------------------|----------------------------------|---------|-----------|
|                                          |                                | internal counter.                |         |           |
| Integrity protection mode info           |                                | Not Present                      |         | RBL1-007  |
| Ciphering mode info                      |                                | Not Present                      |         | RBL1-008  |
| Activation time                          | A1, A2, A3, A7, A8             | (256+CFN-(CFN MOD 8 + 8))MOD 256 |         | RBL1-009  |
|                                          | , A9, A10                      |                                  | Rel-5   | RBL1-010  |
| Activation time                          | A4, A5, A6                     | Not Present                      |         | RBL1-011  |
| New U-RNTI                               |                                | Not Present                      |         | RBL1-012  |
| New C-RNTI                               | A1,A2,A3,A4                    | Not Present                      |         | RBL1-013  |
|                                          | , A9                           |                                  | Rel-5   | RBL1-014  |
| New C-RNTI                               | A5, A6, A7, A8                 | '1010 1010 1010 1010'            |         | RBL1-015  |
|                                          | , A10                          |                                  | Rel-5   | RBL1-016  |
| New DSCH-RNTI                            | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present                      |         | RBL1-017  |
| New H-RNTI                               | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present                      |         | RBL1-018  |
|                                          | , A9, A10                      |                                  | Rel-5   | RBL1-019  |
| CHOICE <i>mode</i>                       |                                | TDD                              | Rel-7   | RBL1-020  |
| - New E-RNTI                             |                                | Not Present                      | Rel-7   | RBL1-021  |
| RRC State indicator                      | A1,A2, A3, A4                  | CELL_DCH                         |         | RBL1-022  |
|                                          | , A9                           |                                  | Rel-5   | RBL1-023  |
| RRC State indicator                      | A5, A6, A7, A8                 | CELL_FACH                        |         | RBL1-024  |
|                                          | , A10                          |                                  | Rel-5   | RBL1-025  |
| UTRAN DRX cycle length coefficient       | A1,A2,A3,A4, A5,A6, A7, A8     | Not Present                      |         | RBL1-026  |
|                                          | , A9, A10                      |                                  | Rel-5   | RBL1-027  |
| CN information info                      |                                | Not Present                      |         | RBL1-028  |
| Signalling Connection release indication |                                | Not Present                      |         | RBL1-029  |
| URA identity                             |                                | Not Present                      |         | RBL1-030  |
| RNC support for change of UE capability  |                                | Not Present                      | Rel-7   | RBL1-030a |
| RAB information to reconfigure list      |                                | Not Present                      |         | RBL1-031  |
| RB information to release list           | A1, A7                         |                                  |         | RBL1-032  |
| RB information to release                |                                |                                  |         | RBL1-033  |
| - RB identity                            |                                | 10                               |         | RBL1-034  |
| RB information to release list           | A2, A8                         |                                  |         | RBL1-035  |
| RB information to release                |                                |                                  |         | RBL1-036  |
| - RB identity                            |                                | 10                               |         | RBL1-037  |
| RB information to release                |                                |                                  |         | RBL1-038  |
| - RB identity                            |                                | 11                               |         | RBL1-039  |
| RB information to release                |                                |                                  |         | RBL1-040  |
| - RB identity                            |                                | 12                               |         | RBL1-041  |
| RB information to release list           | A3, A4, A5, A6                 |                                  |         | RBL1-042  |
| RB information to release                |                                |                                  |         | RBL1-043  |
| - RB identity                            |                                | 20                               |         | RBL1-044  |
| RB information to release                | A9, A10                        |                                  | Rel-5   | RBL1-045  |
| - RB identity                            |                                | 25                               |         | RBL1-046  |
| RB information to reconfigure list       |                                | Not Present                      | Rel-6   | RBL1-047  |
| RB information to be affected list       | A1,A2, A3,A4,A5, A6, A7, A8    | Not Present                      |         | RBL1-048  |
|                                          | , A9, A10                      |                                  | Rel-5   | RBL1-049  |
| Downlink counter synchronization info    | A1,A2,A3,A4,A5,A6, A7, A8      | Not Present                      |         | RBL1-050  |



| Information Element                                                | Condition                      | Value/remark                                                      | Version | Index    |
|--------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------|---------|----------|
|                                                                    | , A9, A10                      |                                                                   | Rel-5   | RBL1-051 |
| UL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8 | TFCS reconfigured to fit the new transport channel configuration. |         | RBL1-052 |
|                                                                    | , A9, A10                      |                                                                   | Rel-5   | RBL1-053 |
| Deleted TrCH information list                                      | A1,A2, A3, A5, A7, A8          |                                                                   |         | RBL1-056 |
|                                                                    | , A9, A10                      |                                                                   | Rel-5   | RBL1-057 |
| Deleted UL TrCH Information                                        | A1,A2, A3, A5, A7, A8          |                                                                   |         | RBL1-058 |
|                                                                    | , A9, A10                      |                                                                   | Rel-5   | RBL1-059 |
| - Uplink transport channel type                                    |                                | DCH                                                               |         | RBL1-060 |
| - Transport channel identity                                       |                                | 1                                                                 |         | RBL1-061 |
| Deleted UL TrCH Information                                        | A2, A8                         |                                                                   |         | RBL1-062 |
| - Uplink transport channel type                                    |                                | DCH                                                               |         | RBL1-063 |
| - Transport channel identity                                       |                                | 2                                                                 |         | RBL1-064 |
| Deleted UL TrCH Information                                        | A2, A8                         |                                                                   |         | RBL1-065 |
| - Uplink transport channel type                                    |                                | DCH                                                               |         | RBL1-066 |
| - Transport channel identity                                       |                                | 3                                                                 |         | RBL1-067 |
| Deleted TrCH information list                                      | A4, A6                         | Not Present                                                       |         | RBL1-068 |
| Added or Reconfigured TrCH information list                        | A5, A6, A7, A8                 | Not Present                                                       |         | RBL1-069 |
|                                                                    | , A10                          |                                                                   | Rel-5   | RBL1-070 |
| Added or Reconfigured TrCH information list                        | A1, A2, A3, A4                 | TrCHs (DCH for DCCH )                                             |         | RBL1-071 |
|                                                                    | , A9                           |                                                                   | Rel-5   | RBL1-072 |
| Added or Reconfigured UL TrCH information                          |                                |                                                                   |         | RBL1-073 |
| - Uplink transport channel type                                    |                                | DCH                                                               |         | RBL1-074 |
| - UL Transport channel identity                                    |                                | 5                                                                 |         | RBL1-075 |
| - TFS                                                              |                                |                                                                   |         | RBL1-076 |
| - CHOICE Transport channel type                                    |                                | Dedicated transport channels                                      |         | RBL1-077 |
| - Dynamic Transport format information                             |                                |                                                                   |         | RBL1-078 |
| - RLC Size                                                         |                                | Reference to clause 6.11 Parameter Set                            |         | RBL1-079 |
| - Number of TBs and TTI List                                       |                                | (This IE is repeated for TFI number.)                             |         | RBL1-080 |
| - Transmission Time Interval                                       |                                | Not present                                                       |         | RBL1-081 |
| - Number of Transport blocks                                       |                                | Reference to clause 6.11 Parameter Set                            |         | RBL1-082 |
| - CHOICE Logical channel list                                      |                                | All (NULL)                                                        |         | RBL1-083 |
| - Semi-static Transport Format information                         |                                |                                                                   |         | RBL1-084 |
| - Transmission time interval                                       |                                | Reference to clause 6.11 Parameter Set                            |         | RBL1-085 |
| - Type of channel coding                                           |                                | Reference to clause 6.11 Parameter Set                            |         | RBL1-086 |
| - Coding Rate                                                      |                                | Reference to clause 6.11 Parameter Set                            |         | RBL1-087 |
| - Rate matching attribute                                          |                                | Reference to clause 6.11 Parameter Set                            |         | RBL1-088 |
| - CRC size                                                         |                                | Reference to clause 6.11 Parameter Set                            |         | RBL1-089 |
| CHOICE <i>mode</i>                                                 |                                | TDD (No data)                                                     |         | RBL1-090 |
| DL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8 | TFCS reconfigured to fit the new transport channel configuration. |         | RBL1-091 |
|                                                                    | , A9, A10                      |                                                                   | Rel-5   | RBL1-092 |
| - Deleted DL TrCH Information                                      | A1, A2, A3, A5,A7, A8          |                                                                   |         | RBL1-096 |
|                                                                    |                                |                                                                   |         | RBL1-097 |
| - Downlink transport channel type                                  |                                | DCH                                                               |         | RBL1-098 |
| - Transport channel identity                                       |                                | 6                                                                 |         | RBL1-099 |
| - Deleted DL TrCH Information                                      | A2, A8                         |                                                                   |         | RBL1-100 |
| - Downlink transport channel type                                  |                                | DCH                                                               |         | RBL1-101 |
| - Transport channel identity                                       |                                | 7                                                                 |         | RBL1-102 |
| - Deleted DL TrCH Information                                      | A2, A8                         |                                                                   |         | RBL1-103 |
| - Downlink transport channel type                                  |                                | DCH                                                               |         | RBL1-104 |
| - Transport channel identity                                       |                                | 8                                                                 |         | RBL1-105 |
| Deleted TrCH information list                                      | A4, A6                         | Not Present                                                       |         | RBL1-106 |
| Deleted DL TrCH Information                                        | A9, A10                        |                                                                   | Rel-5   | RBL1-107 |
| - Downlink transport channel type                                  |                                | HS-DSCH                                                           |         | RBL1-108 |
| - DL HS-DSCH MAC-d flow identity                                   |                                | 0                                                                 |         | RBL1-109 |
| Added or Reconfigured TrCH information list                        |                                |                                                                   |         | RBL1-110 |

| Information Element                         | Condition                  | Value/remark                                                              | Version | Index     |
|---------------------------------------------|----------------------------|---------------------------------------------------------------------------|---------|-----------|
| - Added or Reconfigured DL TrCH information | A5, A6, A7, A8             | Not Present                                                               |         | RBL1-111  |
|                                             | , A10                      |                                                                           | Rel-5   | RBL1-112  |
| - Added or Reconfigured DL TrCH information | A1, A2, A3, A4             | 1 TrCHs (DCH for DCCH)                                                    |         | RBL1-113  |
|                                             | , A9                       |                                                                           | Rel-5   | RBL1-114  |
| - Downlink transport channel type           |                            | DCH                                                                       |         | RBL1-115  |
| - DL Transport channel identity             |                            | 10                                                                        |         | RBL1-116  |
| - CHOICE DL parameters                      |                            | Same as UL                                                                |         | RBL1-117  |
| - Uplink transport channel type             |                            | DCH                                                                       |         | RBL1-118  |
| - UL TrCH identity                          |                            | 5                                                                         |         | RBL1-119  |
| - DCH quality target                        |                            |                                                                           |         | RBL1-120  |
| - BLER Quality value                        |                            | -20 (-2.0)                                                                |         | RBL1-121  |
| Frequency info                              | A1, A2, A3, A4, A5, A7, A8 |                                                                           |         | RBL1-122  |
|                                             | , A9, A10                  |                                                                           | Rel-5   | RBL1-123  |
| - Choice mode                               |                            | TDD                                                                       |         | RBL1-124  |
| - UARFCN (Nt)                               |                            | Reference to clause 5.1 Test frequencies                                  |         | RBL1-125  |
| Frequency info                              | A6                         | Not Present                                                               |         | RBL1-126  |
| Multi-frequency Info                        |                            | Not Present                                                               | Rel-7   | RBL1-126a |
| Control Channel DRX information             |                            | Not Present                                                               | Rel-8   | RBL1-127  |
| SPS Information                             |                            | Not Present                                                               | Rel-8   | RBL1-128  |
| MIMO parameters                             |                            | Not Present                                                               | Rel-8   | RBL1-129  |
| MU-MIMO info                                |                            | Not Present                                                               | Rel-10  | RBL1-129a |
| Maximum allowed UL TX power                 | A1, A2, A3, A4, A7, A8     | 33dBm                                                                     |         | RBL1-130  |
| Maximum allowed UL TX power                 | A5, A6                     | using the default value                                                   |         | RBL1-131  |
| CHOICE channel requirement                  | A5, A6 , A7, A8            | Not Present                                                               |         | RBL1-132  |
|                                             | , A10                      |                                                                           | Rel-5   | RBL1-133  |
| CHOICE channel requirement                  | A1, A2, A3, A4             | Uplink DPCH info                                                          |         | RBL1-134  |
|                                             | , A9                       |                                                                           | Rel-5   | RBL1-135  |
| - Uplink DPCH power control info            |                            | Not Present                                                               |         | RBL1-136  |
| - CHOICE mode                               |                            | TDD                                                                       |         | RBL1-137  |
| - Uplink Timing Advance Control             |                            | Not Present                                                               |         | RBL1-138  |
| - UL CCTrCH List                            |                            |                                                                           |         | RBL1-139  |
| - TFCS ID                                   |                            | 1                                                                         |         | RBL1-140  |
| - UL Target SIR                             |                            | Real (-11 .. 20 by step of 0.5dB)<br>Reference to clause 6 Parameter set. |         | RBL1-141  |
| - Time info                                 |                            |                                                                           |         | RBL1-142  |
| - Activation time                           |                            | (256+CFN-(CFN MOD 8 + 8))MOD 256                                          |         | RBL1-143  |
| - Duration                                  |                            | Infinite                                                                  |         | RBL1-144  |
| - Common timeslot info                      |                            |                                                                           |         | RBL1-145  |
| - 2 <sup>nd</sup> interleaving mode         |                            | Default value is "Frame"                                                  |         | RBL1-146  |
| - TFCI coding                               |                            | Reference to clause 6 Parameter set                                       |         | RBL1-147  |
| - Puncturing limit                          |                            | Reference to clause 6 Parameter set                                       |         | RBL1-148  |
| - Repetition period                         |                            | 1                                                                         |         | RBL1-149  |
| - Repetition length                         |                            |                                                                           |         | RBL1-150  |
| - Uplink DPCH timeslots and code            |                            |                                                                           |         | RBL1-151  |
| - Dynamic SF usage                          |                            | FALSE                                                                     |         | RBL1-152  |
| - First individual timeslot info            |                            |                                                                           |         | RBL1-153  |
| - Timeslot number                           |                            |                                                                           |         | RBL1-154  |
| - CHOICE TDD option                         |                            | 1.28 Mcps TDD                                                             |         | RBL1-155  |
| - Timeslot number                           |                            | 1 OR 2 OR 3                                                               |         | RBL1-156  |
| - TFCI existence                            |                            | TRUE                                                                      |         | RBL1-157  |
| - Midamble shift and burst type             |                            |                                                                           |         | RBL1-158  |
| - CHOICE TDD option                         |                            | 1.28 Mcps TDD                                                             |         | RBL1-159  |
| - Midamble allocation mode                  |                            | Default midamble                                                          |         | RBL1-160  |

| Information Element                             | Condition                               | Value/remark                                                                                                  | Version | Index     |
|-------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------|---------|-----------|
| - Midamble configuration                        |                                         | 8 (k=16)                                                                                                      |         | RBL1-161  |
| - Midamble Shift                                |                                         | Not Present                                                                                                   |         | RBL1-162  |
| - CHOICE TDD option                             |                                         | 1.28 Mcps TDD                                                                                                 |         | RBL1-163  |
| - Modulation                                    |                                         | QPSK                                                                                                          |         | RBL1-164  |
| - SS-TPC Symbols                                |                                         | 1                                                                                                             |         | RBL1-165  |
| - Additional TPC-SS Symbols                     |                                         | Not present                                                                                                   |         | RBL1-166  |
| - First timeslot Code List                      |                                         | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |         | RBL1-167  |
| - channelisation codes                          |                                         | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.               |         | RBL1-168  |
| - CHOICE more timeslots                         |                                         | No more timeslots                                                                                             |         | RBL1-169  |
| - UL CCTrCH List to Remove                      |                                         | Not present                                                                                                   |         | RBL1-170  |
| E-DCH Info                                      |                                         | Not Present                                                                                                   | Rel-7   | RBL1-171  |
| Multi-carrier E-DCH Info for LCR TDD            |                                         | Not Present                                                                                                   | Rel-10  | RBL1-171a |
| CHOICE Mode                                     | A1, A2, A3, A4, A5, A6, A7, A8          | TDD                                                                                                           |         | RBL1-172  |
|                                                 | , A9, A10                               |                                                                                                               | Rel-5   | RBL1-173  |
| Downlink HS-PDSCH Information                   | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                   | Rel-5   | RBL1-174  |
| Downlink information common for all radio links | A5, A6, A7, A8                          | Not Present                                                                                                   |         | RBL1-175  |
|                                                 | , A10                                   |                                                                                                               | Rel-5   | RBL1-176  |
| Downlink information common for all radio links | A1, A2, A3                              |                                                                                                               |         | RBL1-177  |
|                                                 | , A9                                    |                                                                                                               | Rel-5   | RBL1-178  |
| - Downlink DPCH info common for all RL          |                                         |                                                                                                               |         | RBL1-179  |
| - Timing indication                             |                                         | Maintain                                                                                                      |         | RBL1-180  |
| - CFN-targetSFN frame offset                    |                                         | Not Present                                                                                                   |         | RBL1-181  |
| - Downlink DPCH power control information       |                                         |                                                                                                               |         | RBL1-182  |
| - CHOICE mode                                   |                                         | TDD                                                                                                           |         | RBL1-183  |
| - TPC Step Size                                 |                                         | 1                                                                                                             |         | RBL1-184  |
| - MAC-d HFN initial value                       |                                         | Not Present                                                                                                   |         | RBL1-185  |
| - CHOICE mode                                   |                                         | TDD                                                                                                           |         | RBL1-186  |
| - CHOICE mode                                   |                                         | TDD                                                                                                           |         | RBL1-187  |
| - CHOICE TDD option                             |                                         | 1.28 Mcps TDD                                                                                                 |         | RBL1-188  |
| - TSTD indicator                                |                                         | FALSE                                                                                                         |         | RBL1-189  |
| - Default DPCH Offset Value                     |                                         | Not Present                                                                                                   |         | RBL1-190  |
| - MAC-hs reset indicator                        |                                         | Not Present                                                                                                   | Rel-5   | RBL1-191  |
| Downlink information common for all radio links | A4                                      |                                                                                                               |         | RBL1-192  |
| - Downlink DPCH info common for all RL          |                                         |                                                                                                               |         | RBL1-193  |
| - Timing indication                             |                                         | Initialize                                                                                                    |         | RBL1-194  |
| - CFN-targetSFN frame offset                    |                                         | Not Present                                                                                                   |         | RBL1-195  |
| - Downlink DPCH power control information       |                                         |                                                                                                               |         | RBL1-196  |
| - CHOICE mode                                   |                                         | TDD                                                                                                           |         | RBL1-197  |
| - TPC Step Size                                 |                                         | 1                                                                                                             |         | RBL1-198  |
| - MAC-d HFN initial value                       |                                         | Not Present                                                                                                   |         | RBL1-199  |
| - CHOICE mode                                   |                                         | TDD                                                                                                           |         | RBL1-200  |
| - CHOICE mode                                   |                                         | TDD                                                                                                           |         | RBL1-201  |
| - CHOICE TDD option                             |                                         | 1.28 Mcps TDD                                                                                                 |         | RBL1-202  |
| - TSTD indicator                                |                                         | FALSE                                                                                                         |         | RBL1-203  |
| - Default DPCH Offset Value                     |                                         |                                                                                                               |         | RBL1-204  |
| - CHOICE mode                                   |                                         | TDD                                                                                                           |         | RBL1-205  |
| - Default DPCH Offset Value                     |                                         | 0 Integer(0..7)                                                                                               |         | RBL1-206  |
| - MAC-hs reset indicator                        |                                         | Not Present                                                                                                   | Rel-5   | RBL1-207  |
| Downlink information per radio link list        | A1, A2, A3, A4,                         |                                                                                                               |         | RBL1-208  |
|                                                 | , A9                                    |                                                                                                               | Rel-5   | RBL1-209  |
| - Downlink information for each radio link      |                                         |                                                                                                               |         | RBL1-210  |
| - Choice mode                                   |                                         | TDD                                                                                                           |         | RBL1-211  |

| Information Element                        | Condition        | Value/remark                                                                                                  | Version            | Index    |
|--------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------|--------------------|----------|
| - Primary CCPCH info                       |                  |                                                                                                               |                    | RBL1-212 |
| - Choice mode                              |                  | TDD                                                                                                           |                    | RBL1-213 |
| - Choice TDD Option                        |                  | 1.28 Mcps TDD                                                                                                 |                    | RBL1-214 |
| - TSTD indicator                           |                  | FALSE                                                                                                         |                    | RBL1-215 |
| - Cell parameters ID                       |                  | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127)                                               |                    | RBL1-216 |
| - SCTD indicator                           |                  | FALSE                                                                                                         |                    | RBL1-217 |
| - Downlink DPCH info for each RL           |                  |                                                                                                               |                    | RBL1-218 |
| - CHOICE mode                              |                  | TDD                                                                                                           |                    | RBL1-219 |
| - DL CCTrCh List                           |                  |                                                                                                               |                    | RBL1-220 |
| - TFCS ID                                  |                  | 2 Integer(1.8)                                                                                                |                    | RBL1-221 |
| - Time info                                |                  |                                                                                                               |                    | RBL1-222 |
| - Activation time                          |                  | Now                                                                                                           |                    | RBL1-223 |
| - Duration                                 |                  | Infinite                                                                                                      |                    | RBL1-224 |
| - Common timeslot info                     |                  |                                                                                                               |                    | RBL1-225 |
| - 2 <sup>nd</sup> interleaving mode        |                  | Default value is "Frame"                                                                                      |                    | RBL1-226 |
| - TFCI coding                              |                  | Reference to clause 6 Parameter set                                                                           |                    | RBL1-227 |
| - Puncturing limit                         |                  | Reference to clause 6 Parameter set                                                                           |                    | RBL1-228 |
| - Repetition period                        |                  | 1                                                                                                             |                    | RBL1-229 |
| - Repetition length                        |                  | NULL                                                                                                          |                    | RBL1-230 |
| - Downlink DPCH timeslots and codes        |                  |                                                                                                               |                    | RBL1-231 |
| - First individual timeslot info           |                  |                                                                                                               |                    | RBL1-232 |
| - Timeslot number                          |                  |                                                                                                               |                    | RBL1-233 |
| - CHOICE TDD option                        |                  | 1.28 Mcps TDD                                                                                                 |                    | RBL1-234 |
| - Timeslot number                          |                  | 4 OR 5 OR 6                                                                                                   |                    | RBL1-235 |
| - TFCI existence                           |                  | TRUE                                                                                                          |                    | RBL1-236 |
| - Midamble shift and burst type            |                  |                                                                                                               |                    | RBL1-237 |
| - CHOICE TDD option                        |                  | 1.28 Mcps TDD                                                                                                 |                    | RBL1-238 |
| - Midamble allocation mode                 |                  | Default midamble                                                                                              |                    | RBL1-239 |
| - Midamble configuration                   |                  | 8 (k=16)                                                                                                      |                    | RBL1-240 |
| - Midamble Shift                           |                  | Not Present                                                                                                   |                    | RBL1-241 |
| - CHOICE TDD option                        |                  | 1.28 Mcps TDD                                                                                                 |                    | RBL1-242 |
| - Modulation                               |                  | QPSK                                                                                                          |                    | RBL1-243 |
| - SS-TPC Symbols                           |                  | 1                                                                                                             |                    | RBL1-244 |
| - Additional TPC-SS Symbols                |                  | Not present                                                                                                   |                    | RBL1-245 |
| - First timeslot channelisation codes      |                  | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |                    | RBL1-246 |
| - CHOICE codes representation              |                  | Bitmap                                                                                                        |                    | RBL1-247 |
| - Channelisation codes bitmap              |                  | Reference to clause 6.10 Parameter Set                                                                        |                    | RBL1-248 |
| - CHOICE more timeslots                    |                  | No more timeslots                                                                                             |                    | RBL1-249 |
| - UL CCTrCH TPC List                       |                  | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.                                   |                    | RBL1-250 |
| - DL CCTrCH List to Remove                 |                  | Not present                                                                                                   |                    | RBL1-251 |
| - SCCPCH Information for FACH              |                  | Not Present                                                                                                   | R99 and Rel-4 only | RBL1-252 |
| - E-AGCH Info                              |                  | Not Present                                                                                                   | Rel-6              | RBL1-253 |
| - CHOICE mode                              |                  | TDD                                                                                                           | Rel-7              | RBL1-254 |
| - E-HICH Information                       |                  | Not Present                                                                                                   | Rel-7              | RBL1-255 |
| Downlink information per radio link list   | A5 ,A7, A8 , A10 |                                                                                                               |                    | RBL1-256 |
|                                            |                  |                                                                                                               | Rel-5              | RBL1-257 |
| - Downlink information for each radio link |                  |                                                                                                               |                    | RBL1-258 |
| - Choice mode                              |                  | TDD                                                                                                           |                    | RBL1-259 |
| - Primary CCPCH info                       |                  |                                                                                                               |                    | RBL1-260 |
| - Choice mode                              |                  | TDD                                                                                                           |                    | RBL1-261 |
| - Choice TDD Option                        |                  | 1.28 Mcps TDD                                                                                                 |                    | RBL1-262 |
| - TSTD indicator                           |                  | FALSE                                                                                                         |                    | RBL1-263 |
| - Cell parameters ID                       |                  | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127)                                               |                    | RBL1-264 |
| - SCTD indicator                           |                  | FALSE                                                                                                         |                    | RBL1-265 |
| - Downlink DPCH info for each RL           |                  | Not Present                                                                                                   |                    | RBL1-266 |
| - SCCPCH Information for FACH              |                  | Not Present                                                                                                   | R99 and            | RBL1-267 |

| Information Element                      | Condition | Value/remark | Version    | Index     |
|------------------------------------------|-----------|--------------|------------|-----------|
|                                          |           |              | Rel-4 only |           |
| - E-AGCH Info                            |           | Not Present  | Rel-6      | RBL1-268  |
| - CHOICE <i>mode</i>                     |           | TDD          | Rel-7      | RBL1-269  |
| - E-HICH Information                     |           | Not Present  | Rel-7      | RBL1-270  |
| Downlink information per radio link list | A6        | Not Present  |            | RBL1-271  |
| MBMS PL Service Restriction Information  |           | Not Present  | Rel-6      | RBL1-272  |
| CELL_DCH measurement occasion info LCR   |           | Not Present  | Rel-9      | RBL1-272a |

| Condition | Explanation                                                                                                                                                                 | Version |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| A1        | This IE need for "Non speech in CS"                                                                                                                                         | Rel-5   |
| A2        | This IE need for "Speech in CS"                                                                                                                                             |         |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"                                                                                                                   |         |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"                                                                                                                  |         |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"                                                                                                                  |         |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS"                                                                                                                 |         |
| A7        | This IE need for "Non speech to CELL_FACH from CELL_DCH in CS"                                                                                                              |         |
| A8        | This IE need for "Speech to CELL_FACH from CELL_DCH in CS"                                                                                                                  |         |
| A9        | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH from CELL_DCH / HS-DSCH in PS" |         |
| A10       | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_FACH from CELL_DCH / HS-DSCH in PS"   | Rel-5   |

## Contents of RADIO BEARER RELEASE message: AM or UM (7.68 Mcps TDD)

| Information Element                                   | Condition                      | Value/remark                                                                                                                                                       | Version | Index                |
|-------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------|
| Message Type                                          | A1, A2, A3, A4, A5, A6, A7, A8 |                                                                                                                                                                    |         | RBL7-001             |
|                                                       | , A9, A10                      |                                                                                                                                                                    | Rel-5   | RBL7-002             |
| RRC transaction identifier                            |                                | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBL7-003             |
| Integrity check info<br>- message authentication code |                                | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | RBL7-004<br>RBL7-005 |
| - RRC message sequence number                         |                                | SS provides the value of this IE, from its internal counter.                                                                                                       |         | RBL7-006             |
| Integrity protection mode info                        |                                | Not Present                                                                                                                                                        |         | RBL7-007             |
| Ciphering mode info                                   |                                | Not Present                                                                                                                                                        |         | RBL7-008             |
| Activation time                                       | A1, A2, A3, A7, A8             | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$                                                                                                          |         | RBL7-009             |
| Activation time                                       | A4, A5, A6                     | Not Present                                                                                                                                                        |         | RBL7-010             |
|                                                       | , A9, A10                      |                                                                                                                                                                    | Rel-5   | RBL7-011             |
| New U-RNTI                                            |                                | Not Present                                                                                                                                                        |         | RBL7-012             |
| New C-RNTI                                            | A1, A2, A3, A4                 | Not Present                                                                                                                                                        |         | RBL7-013             |
|                                                       | , A9                           |                                                                                                                                                                    | Rel-5   | RBL7-014             |
| New C-RNTI                                            | A5, A6, A7, A8                 | '1010 1010 1010 1010'                                                                                                                                              |         | RBL7-015             |
|                                                       | , A10                          |                                                                                                                                                                    | Rel-5   | RBL7-016             |
| New DSCH-RNTI                                         | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present                                                                                                                                                        |         | RBL7-017             |
| New H-RNTI                                            | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present                                                                                                                                                        |         | RBL7-018             |
|                                                       | , A9, A10,                     |                                                                                                                                                                    | Rel-5   | RBL7-019             |
| CHOICE mode                                           |                                | TDD                                                                                                                                                                | Rel-7   | RBL7-020             |
| - New E-RNTI                                          |                                | Not Present                                                                                                                                                        | Rel-7   | RBL7-021             |
| RRC State indicator                                   | A1, A2, A3,                    | CELL_DCH                                                                                                                                                           |         | RBL7-022             |

| Information Element                                                                                                                                                                                                                                                                                                                         | Condition                            | Value/remark                                                      | Version | Index                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                             | A4                                   |                                                                   | Rel-5   | RBL7-023                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             | , A9                                 |                                                                   |         |                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                             |                                      |                                                                   |         |                                                                                                          |
| RRC State indicator                                                                                                                                                                                                                                                                                                                         | A5, A6, A7, A8                       | CELL_FACH                                                         | Rel-5   | RBL7-024                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             |                                      |                                                                   |         |                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                             | , A10                                |                                                                   |         |                                                                                                          |
| UTRAN DRX cycle length coefficient                                                                                                                                                                                                                                                                                                          | A1,A2,A3,A4 ,A5,A6, A7, A8           | Not Present                                                       | Rel-5   | RBL7-026                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             |                                      |                                                                   |         |                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                             | , A9, A10                            |                                                                   |         |                                                                                                          |
| CN information info                                                                                                                                                                                                                                                                                                                         |                                      | Not Present                                                       |         | RBL7-028                                                                                                 |
| Signalling Connection release indication                                                                                                                                                                                                                                                                                                    |                                      | Not Present                                                       |         | RBL7-029                                                                                                 |
| URA identity                                                                                                                                                                                                                                                                                                                                |                                      | Not Present                                                       |         | RBL7-030                                                                                                 |
| RAB information to reconfigure list                                                                                                                                                                                                                                                                                                         |                                      | Not Present                                                       |         | RBL7-031                                                                                                 |
| RB information to release list<br>RB information to release<br>- RB identity                                                                                                                                                                                                                                                                | A1, A7                               | 10                                                                |         | RBL7-032<br>RBL7-033<br>RBL7-034                                                                         |
| RB information to release list<br>RB information to release<br>- RB identity<br>RB information to release<br>- RB identity<br>RB information to release<br>- RB identity                                                                                                                                                                    | A2, A8                               | 10                                                                |         | RBL7-035                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             |                                      |                                                                   |         | RBL7-036                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             |                                      | 11                                                                |         | RBL7-037                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             |                                      | 12                                                                |         | RBL7-038<br>RBL7-039<br>RBL7-040<br>RBL7-041                                                             |
| RB information to release list                                                                                                                                                                                                                                                                                                              | A3, A4, A5, A6                       |                                                                   |         | RBL7-042                                                                                                 |
| RB information to release<br>- RB identity                                                                                                                                                                                                                                                                                                  |                                      | 20                                                                |         | RBL7-043<br>RBL7-044                                                                                     |
| RB information to release                                                                                                                                                                                                                                                                                                                   | A9, A10                              |                                                                   | Rel-5   | RBL7-045                                                                                                 |
| - RB identity                                                                                                                                                                                                                                                                                                                               |                                      | 25                                                                |         | RBL7-046                                                                                                 |
| RB information to reconfigure list                                                                                                                                                                                                                                                                                                          | A1,A2, A3,A4,A5, A6, A7, A8, A9, A10 | Not Present                                                       | Rel-6   | RBL7-047                                                                                                 |
| RB information to be affected list                                                                                                                                                                                                                                                                                                          | A1,A2, A3,A4,A5, A6, A7, A8          | Not Present                                                       |         | RBL7-048                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             | , A9, A10                            |                                                                   | Rel-5   | RBL7-049                                                                                                 |
| Downlink counter synchronisation info                                                                                                                                                                                                                                                                                                       | A1,A2,A3,A4 ,A5,A6, A7, A8           | Not Present                                                       |         | RBL7-050                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             | , A9, A10                            |                                                                   | Rel-5   | RBL7-051                                                                                                 |
| UL Transport channel information common for all transport channels                                                                                                                                                                                                                                                                          | A1, A2, A3, A4, A5, A6, A7, A8       | TFCS reconfigured to fit the new transport channel configuration. |         | RBL7-052                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             | , A9, A10                            |                                                                   | Rel-5   | RBL7-053                                                                                                 |
| Deleted TrCH information list<br><br>Deleted UL TrCH Information<br><br>- Uplink transport channel type<br>- Transport channel identity<br>Deleted UL TrCH Information<br>- Uplink transport channel type<br>- Transport channel identity<br>Deleted UL TrCH Information<br>- Uplink transport channel type<br>- Transport channel identity | A1,A2, A3, A5, A7, A8                | DCH 1<br><br>DCH 2<br><br>DCH 3                                   |         | RBL7-054                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             | , A9, A10                            |                                                                   | Rel-5   | RBL7-055                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             | A1,A2, A3, A5, A7, A8                |                                                                   |         | RBL7-056                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             | , A9, A10                            |                                                                   | Rel-5   | RBL7-057<br>RBL7-058<br>RBL7-059<br>RBL7-060<br>RBL7-061<br>RBL7-062<br>RBL7-063<br>RBL7-064<br>RBL7-065 |
|                                                                                                                                                                                                                                                                                                                                             | A2, A8                               |                                                                   |         |                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                             | A2, A8                               |                                                                   |         |                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                             |                                      |                                                                   |         |                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                             | Deleted TrCH information list        |                                                                   | A4, A6  | Not Present                                                                                              |
| Added or Reconfigured TrCH information list                                                                                                                                                                                                                                                                                                 | A5, A6, A7, A8                       | Not Present                                                       |         | RBL7-067                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             | , A10                                |                                                                   | Rel-5   | RBL7-068                                                                                                 |
| Added or Reconfigured TrCH information list                                                                                                                                                                                                                                                                                                 | A1, A2, A3, A4                       | TrCHs (DCH for DCCH )                                             |         | RBL7-069                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                             | , A9                                 |                                                                   | Rel-5   | RBL7-070                                                                                                 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Condition                               | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Version            | Index                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Added or Reconfigured UL TrCH information <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format information</li> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical Channel list</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul> |                                         | DCH<br>5<br><br>Dedicated transport channels<br><br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>(This IE is repeated for TFI number.)<br>Not present<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>All (NULL)<br><br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>Reference to TS34.108 clause 6.11<br>Parameter Set<br>Reference to TS34.108 clause 6.11<br>Parameter Set |                    | RBL7-071<br>RBL7-072<br>RBL7-073<br>RBL7-074<br>RBL7-075<br>RBL7-076<br>RBL7-077<br><br>RBL7-078<br>RBL7-079<br>RBL7-080<br><br>RBL7-081<br>RBL7-082<br>RBL7-083<br><br>RBL7-084<br><br>RBL7-085<br><br>RBL7-086<br><br>RBL7-087 |
| CHOICE <i>mode</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         | TDD (No data)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | R99 and Rel-4 only | RBL7-088                                                                                                                                                                                                                         |
| DL Transport channel information common for all transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | TFCS reconfigured to fit the new transport channel configuration.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    | RBL7-089                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rel-5              | RBL7-090                                                                                                                                                                                                                         |
| Deleted TrCH information list <ul style="list-style-type: none"> <li>- Deleted DL TrCH Information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    | RBL7-091                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1, A2, A3, A4, A5, A6, A7, A8, A9      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    | RBL7-092                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- Transport channel identity</li> <li>- Deleted DL TrCH Information</li> <li>- Downlink transport channel type</li> <li>- Transport channel identity</li> <li>- Deleted DL TrCH Information</li> <li>- Downlink transport channel type</li> <li>- Transport channel identity</li> </ul>                                                                                                                                                                                                                                                                                           | A2, A8                                  | DCH 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rel-5              | RBL7-093<br>RBL7-094<br>RBL7-095<br>RBL7-096<br>RBL7-097<br>RBL7-098<br>RBL7-099<br>RBL7-100<br>RBL7-101                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A2, A8                                  | DCH 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         | DCH 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                                                                                                                                                                                                                                  |
| - Deleted DL TrCH Information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL HS-DSCH MAC-d flow identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A9, A10                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rel-5              | RBL7-102                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         | HS-DSCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | RBL7-103                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    | RBL7-104                                                                                                                                                                                                                         |
| Added or Reconfigured TrCH information list <ul style="list-style-type: none"> <li>- Added or Reconfigured DL TrCH information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    | RBL7-105                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A5, A6, A7, A8, A10                     | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    | RBL7-106                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rel-5              | RBL7-107                                                                                                                                                                                                                         |
| - Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul>                                                                                                                                                                                                                                                                                                                           | A1, A2, A3, A4                          | 1 TrCHs (DCH for DCCH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    | RBL7-108                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         | DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    | RBL7-109                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    | RBL7-110                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         | Same as UL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    | RBL7-111                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         | DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    | RBL7-112                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    | RBL7-113                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    | RBL7-114                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         | -Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    | RBL7-115                                                                                                                                                                                                                         |
| Frequency info <ul style="list-style-type: none"> <li>- Choice mode</li> <li>- UARFCN (Nt)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A1, A2, A3, A4, A5, A7, A8, A9, A10     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    | RBL7-116                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         | TDD<br>Reference to clause 5.1 Test frequencies                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rel-5              | RBL7-117<br>RBL7-118<br>RBL7-119                                                                                                                                                                                                 |

| Information Element                             | Condition                               | Value/remark                                                                                                           | Version            | Index    |
|-------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Frequency info                                  | A6                                      | Not Present                                                                                                            |                    | RBL7-120 |
| DTX-DRX timing information                      |                                         | Not Present                                                                                                            | Rel-7              | RBL7-121 |
| DTX-DRX information                             |                                         | Not Present                                                                                                            | Rel-7              | RBL7-122 |
| HS-SCCH less information                        |                                         | Not Present                                                                                                            | Rel-7              | RBL7-123 |
| MIMO parameters                                 |                                         | Not Present                                                                                                            | Rel-7              | RBL7-124 |
| Maximum allowed UL TX power                     |                                         | 33dBm                                                                                                                  |                    | RBL7-125 |
| CHOICE <i>channel requirement</i>               | A5, A6 , A7, A8                         | Not Present                                                                                                            | R99 and Rel-4 only | RBL7-126 |
| CHOICE <i>channel requirement</i>               | A1, A2, A3, A4                          | Uplink DPCH info                                                                                                       | R99 and Rel-4 only | RBL7-127 |
| Uplink DPCH info                                | A10                                     | Not Present                                                                                                            | Rel-5              | RBL7-128 |
| Uplink DPCH info                                | A9                                      |                                                                                                                        | Rel-5              | RBL7-129 |
| - Uplink DPCH power control info                |                                         | Not Present                                                                                                            |                    | RBL7-130 |
| - CHOICE mode                                   |                                         | TDD                                                                                                                    |                    | RBL7-131 |
| - Uplink Timing Advance Control                 |                                         | Not Present                                                                                                            |                    | RBL7-132 |
| - UL CCTrCH List                                |                                         |                                                                                                                        |                    | RBL7-133 |
| - TFCS ID                                       |                                         | 1                                                                                                                      |                    | RBL7-134 |
| - UL Target SIR                                 |                                         | +20dB                                                                                                                  |                    | RBL7-135 |
| - Time info                                     |                                         |                                                                                                                        |                    | RBL7-136 |
| - Activation time                               |                                         | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                       |                    | RBL7-137 |
| - Duration                                      |                                         | Infinite                                                                                                               |                    | RBL7-138 |
| - Common timeslot info                          |                                         |                                                                                                                        |                    | RBL7-139 |
| - 2 <sup>nd</sup> interleaving mode             |                                         | Default value is "Frame"                                                                                               |                    | RBL7-140 |
| - TFCI coding                                   |                                         | Reference to TS34.108 clause 6.11                                                                                      |                    | RBL7-141 |
| - Puncturing limit                              |                                         | Parameter set                                                                                                          |                    | RBL7-142 |
| - Repetition period                             |                                         | Reference to TS34.108 clause 6.11                                                                                      |                    | RBL7-143 |
| - Repetition length                             |                                         | Parameter set                                                                                                          |                    | RBL7-144 |
| - Choice TDD option                             |                                         | 1                                                                                                                      |                    | RBL7-145 |
| - Uplink DPCH timeslots and codes VHCR          |                                         | 7.68Mcps TDD                                                                                                           | Rel-7              | RBL7-146 |
| - Dynamic SF usage                              |                                         | FALSE                                                                                                                  | Rel-7              | RBL7-147 |
| - First individual timeslot info                |                                         |                                                                                                                        |                    | RBL7-148 |
| - Timeslot number                               |                                         |                                                                                                                        |                    | RBL7-149 |
| - CHOICE TDD option                             |                                         | 7.68 Mcps TDD                                                                                                          |                    | RBL7-150 |
| - Timeslot number                               |                                         | 1 OR 2 OR 3                                                                                                            |                    | RBL7-151 |
| - TFCI existence                                |                                         | TRUE                                                                                                                   |                    | RBL7-152 |
| - Midamble shift and burst type                 |                                         |                                                                                                                        |                    | RBL7-153 |
| - CHOICE TDD option                             |                                         | 7.68 Mcps TDD                                                                                                          |                    | RBL7-154 |
| - CHOICE <i>Burst Type</i>                      |                                         | Type 1                                                                                                                 |                    | RBL7-155 |
| - Midamble allocation mode                      |                                         | Default midamble                                                                                                       |                    | RBL7-156 |
| - Midamble configuration                        |                                         | 8                                                                                                                      |                    | RBL7-157 |
| - Midamble Shift                                |                                         | Not Present                                                                                                            |                    | RBL7-158 |
| - CHOICE TDD option                             |                                         | 7.68 Mcps TDD (no data)                                                                                                |                    | RBL7-159 |
| - First timeslot Code List                      |                                         | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. |                    | RBL7-160 |
| - channelisation codes                          |                                         | (SF/ i) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set.               |                    | RBL7-161 |
| - CHOICE more timeslots                         |                                         | No more timeslots                                                                                                      |                    | RBL7-162 |
| - UL CCTrCH List to Remove                      |                                         | Not present                                                                                                            |                    | RBL7-163 |
| E-DCH Info                                      | Not Present                             |                                                                                                                        | Rel-6              | RBL7-164 |
| CHOICE Mode                                     | A1, A2, A3, A4, A5, A6, A7, A8          | TDD                                                                                                                    | R99 and Rel-4 only | RBL7-165 |
| Downlink HS-PDSCH Information                   | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                            | Rel-5              | RBL7-166 |
| Downlink information common for all radio links | A5, A6, A7, A8                          | Not Present                                                                                                            |                    | RBL7-167 |



| Information Element                             | Condition          | Value/remark                                             | Version        | Index                                                                            |
|-------------------------------------------------|--------------------|----------------------------------------------------------|----------------|----------------------------------------------------------------------------------|
|                                                 | , A10              |                                                          | Rel-5          | RBL7-168                                                                         |
| Downlink information common for all radio links | A1, A2, A3<br>, A9 | Downlink DPCH info common for all RL                     | Rel-5<br>Rel-6 | RBL7-169<br>RBL7-170<br>RBL7-171                                                 |
| - CHOICE DPCH info                              |                    |                                                          |                |                                                                                  |
| - Downlink DPCH info common for all RL          |                    | Maintain                                                 |                | RBL7-172                                                                         |
| - Timing indication                             |                    | Not Present                                              |                | RBL7-173                                                                         |
| - CFN-targetSFN frame offset                    |                    |                                                          |                | RBL7-174                                                                         |
| - Downlink DPCH power control information       |                    |                                                          |                | RBL7-175                                                                         |
| - CHOICE mode                                   |                    | TDD                                                      |                | RBL7-176                                                                         |
| - TPC Step Size                                 |                    | 1                                                        |                | RBL7-177                                                                         |
| - MAC-d HFN initial value                       |                    | Not Present                                              |                | RBL7-178                                                                         |
| - CHOICE mode                                   |                    | TDD                                                      |                | RBL7-179                                                                         |
| - CHOICE mode                                   |                    | TDD                                                      |                | RBL7-180                                                                         |
| - CHOICE TDD option                             |                    | 7.68 Mcps TDD                                            |                | RBL7-181                                                                         |
| - Default DPCH Offset Value                     |                    | Not Present                                              |                | RBL7-182                                                                         |
| - MAC-hs reset indicator                        |                    | Not Present                                              | Rel-5          | RBL7-183                                                                         |
| Downlink information common for all radio links | A4                 | Downlink DPCH info common for all RL                     | Rel-6          | RBL7-184<br>RBL7-185                                                             |
| - CHOICE DPCH info                              |                    |                                                          |                |                                                                                  |
| - Downlink DPCH info common for all RL          |                    | Initialise                                               |                | RBL7-186                                                                         |
| - Timing indication                             |                    | Not Present                                              |                | RBL7-187                                                                         |
| - CFN-targetSFN frame offset                    |                    |                                                          |                | RBL7-188                                                                         |
| - Downlink DPCH power control information       |                    |                                                          |                | RBL7-189                                                                         |
| - CHOICE mode                                   |                    | TDD                                                      |                | RBL7-190                                                                         |
| - TPC Step Size                                 |                    | 1                                                        |                | RBL7-191                                                                         |
| - MAC-d HFN initial value                       |                    | Not Present                                              |                | RBL7-192                                                                         |
| - CHOICE mode                                   |                    | TDD                                                      |                | RBL7-193                                                                         |
| - CHOICE mode                                   |                    | TDD                                                      |                | RBL7-194                                                                         |
| - CHOICE TDD option                             |                    | 7.68 Mcps TDD                                            |                | RBL7-195                                                                         |
| - Default DPCH Offset Value                     |                    |                                                          |                | RBL7-196                                                                         |
| - CHOICE mode                                   |                    | TDD                                                      |                | RBL7-197                                                                         |
| - Default DPCH Offset Value                     |                    | 0 Integer(0..7)                                          |                | RBL7-198                                                                         |
| - MAC-hs reset indicator                        |                    | Not Present                                              | Rel-5          | RBL7-199                                                                         |
| Downlink information per radio link list        | A1, A2, A3,<br>A4  |                                                          |                | RBL7-200                                                                         |
|                                                 | , A9               |                                                          | Rel-5          | RBL7-201<br>RBL7-202<br>RBL7-203<br>RBL7-204<br>RBL7-205<br>RBL7-206<br>RBL7-207 |
| - Downlink information for each radio link      |                    | TDD                                                      |                |                                                                                  |
| - Choice mode                                   |                    |                                                          |                |                                                                                  |
| - Primary CCPCH info                            |                    | TDD                                                      |                |                                                                                  |
| - Choice mode                                   |                    | 7.68 Mcps TDD                                            |                |                                                                                  |
| - Choice TDD Option                             |                    | Ref. to the Default setting in TS34.108 clause 6.1 (TDD) |                |                                                                                  |
| - Cell parameters ID                            |                    | Integer(0..127)                                          |                |                                                                                  |
| - SCTD indicator                                |                    | FALSE                                                    |                | RBL7-208                                                                         |
| - CHOICE DPCH info                              |                    | Downlink DPCH info for each RL                           | Rel-6          | RBL7-209                                                                         |
| - Downlink DPCH info for each RL                |                    |                                                          |                | RBL7-210                                                                         |
| - CHOICE mode                                   |                    | 7.68Mcps TDD                                             | Rel-7          | RBL7-211                                                                         |
| - DL CCTrCh List                                |                    |                                                          |                | RBL7-212                                                                         |
| - TFCS ID                                       |                    | 2 Integer(1.8)                                           |                | RBL7-213                                                                         |
| - Time info                                     |                    |                                                          |                | RBL7-214                                                                         |
| - Activation time                               |                    | Now                                                      |                | RBL7-215                                                                         |
| - Duration                                      |                    | Infinite                                                 |                | RBL7-216                                                                         |
| - Common timeslot info                          |                    |                                                          |                | RBL7-217                                                                         |
| - 2 <sup>nd</sup> interleaving mode             |                    | Default value is "Frame"                                 |                | RBL7-218                                                                         |
| - TFCI coding                                   |                    | Reference to TS34.108 clause 6.11                        |                | RBL7-219                                                                         |
| - Puncturing limit                              |                    | Parameter set                                            |                | RBL7-220                                                                         |
| - Repetition period                             |                    | Reference to TS34.108 clause 6.11                        |                |                                                                                  |
| - Repetition length                             |                    | Parameter set                                            |                |                                                                                  |
| - Downlink DPCH timeslots and codes             |                    | 1                                                        | Rel-7          | RBL7-221                                                                         |
| VHCR                                            |                    | NULL                                                     |                | RBL7-222                                                                         |
| - First individual timeslot info                |                    |                                                          |                | RBL7-223                                                                         |
| - Timeslot number                               |                    |                                                          |                | RBL7-224                                                                         |
| - CHOICE TDD option                             |                    | 7.68 Mcps TDD                                            | Rel-7          | RBL7-225<br>RBL7-226                                                             |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Condition                            | Value/remark                                                                                                           | Version            | Index    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| VHCR <ul style="list-style-type: none"> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble shift and burst type</li> <li>- CHOICE TDD option</li> <li>- Midamble allocation mode</li> <li>- Midamble configuration</li> <li>- Midamble Shift</li> <li>- CHOICE TDD option</li> <li>- First timeslot channelisation codes</li> <li>- CHOICE codes representation</li> <li>- Channelisation codes bitmap</li> <li>- CHOICE more timeslots</li> <li>- UL CCTrCH TPC List</li> <li>- DL CCTrCH List to Remove</li> <li>- SCCPCH Information for FACH</li> <li>- E-AGCH Info</li> <li>- CHOICE E-HICH Information</li> <li>- CHOICE E-RGCH Information</li> </ul> |                                      | 4 OR 5 OR 6                                                                                                            | Rel-7              | RBL7-227 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | TRUE                                                                                                                   |                    | RBL7-228 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |                                                                                                                        |                    | RBL7-229 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | 7.68 Mcps TDD                                                                                                          | Rel-7              | RBL7-230 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Default midamble                                                                                                       |                    | RBL7-231 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | 8                                                                                                                      |                    | RBL7-232 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Not Present                                                                                                            | Rel-7              | RBL7-233 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | 7.68 Mcps TDD (no data)                                                                                                |                    | RBL7-234 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. |                    | RBL7-235 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Bitmap                                                                                                                 | R99 and Rel-4 only | RBL7-236 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Reference to TS34.108 clause 6.11 Parameter Set                                                                        |                    | RBL7-237 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | No more timeslots                                                                                                      |                    | RBL7-238 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Default is all                                                                                                         | Rel-6              | RBL7-239 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Not present                                                                                                            |                    | RBL7-240 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Not Present                                                                                                            |                    | RBL7-241 |
| Downlink information per radio link list <ul style="list-style-type: none"> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CCPCH info</li> <li>- Choice mode</li> <li>- Choice TDD Option</li> <li>- TSTD indicator</li> <li>- Cell parameters ID</li> <li>- SCTD indicator</li> <li>- E-AGCH Info</li> <li>- CHOICE E-HICH Information</li> <li>- CHOICE E-RGCH Information</li> <li>- Downlink DPCH info for each RL</li> <li>- SCCPCH Information for FACH</li> </ul>                                                                                                                                                            | A5 ,A7, A8                           | TDD                                                                                                                    | Rel-7              | RBL7-245 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |                                                                                                                        |                    | RBL7-246 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |                                                                                                                        |                    | RBL7-247 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | TDD                                                                                                                    | Rel-7              | RBL7-248 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | 7.68 Mcps TDD                                                                                                          |                    | RBL7-249 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | FALSE                                                                                                                  |                    | RBL7-250 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Ref. to the Default setting in TS34.108 clause 6.1 (TDD)                                                               | Rel-6              | RBL7-251 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Integer(0..127)                                                                                                        |                    | RBL7-252 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | FALSE                                                                                                                  |                    | RBL7-253 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Not present                                                                                                            | Rel-6              | RBL7-254 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Not present                                                                                                            |                    | RBL7-255 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Not present                                                                                                            |                    | RBL7-256 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Not Present                                                                                                            | R99 and Rel-4 only | RBL7-257 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      | Not Present                                                                                                            |                    | RBL7-258 |
| Downlink information per radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A6                                   | Not Present                                                                                                            | Rel-5              | RBL7-259 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | , A10                                |                                                                                                                        |                    | RBL7-260 |
| MBMS PL Service Restriction Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1,A2, A3,A4,A5, A6, A7, A8, A9, A10 | Not Present                                                                                                            | Rel-6              | RBL7-261 |
| MBMS RB list released to change transfer mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      | Not Present                                                                                                            | Rel-6              | RBL7-262 |

| Condition | Explanation                                                                                                                                                                 | Version |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| A1        | This IE need for "Non speech in CS"                                                                                                                                         | Rel-5   |
| A2        | This IE need for "Speech in CS"                                                                                                                                             |         |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"                                                                                                                   |         |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"                                                                                                                  |         |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"                                                                                                                  |         |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS"                                                                                                                 |         |
| A7        | This IE need for "Non speech to CELL_FACH from CELL_DCH in CS"                                                                                                              |         |
| A8        | This IE need for "Speech to CELL_FACH from CELL_DCH in CS"                                                                                                                  |         |
| A9        | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH from CELL_DCH / HS-DSCH in PS" |         |
| A10       | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_FACH from CELL_DCH / HS-DSCH in PS"   | Rel-5   |

## Contents of DOWNLINK DIRECT TRANSFER message: AM

| Information Element           | Value/remark                                                                                                                                                                                                                                                                                                             |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  | 0<br><br>SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.<br>SS provides the value of this IE, from its internal counter.<br>CS domain or PS domain<br>See Specific Message Content for each test case |
| RRC transaction identifier    |                                                                                                                                                                                                                                                                                                                          |
| Integrity check info          |                                                                                                                                                                                                                                                                                                                          |
| - Message authentication code |                                                                                                                                                                                                                                                                                                                          |
| - RRC Message sequence number |                                                                                                                                                                                                                                                                                                                          |
| CN domain identity            |                                                                                                                                                                                                                                                                                                                          |
| NAS message                   |                                                                                                                                                                                                                                                                                                                          |

## Contents of INITIAL DIRECT TRANSFER message: AM

| Information Element            | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Version |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                   | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.<br><br>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.<br>CS domain or PS domain<br>Set to the same octet string as in the IMSI stored in the USIM card<br>Set according to that indicated in specific message content for each test case<br>This IE is checked to see if it is present.<br>See the specific test case<br>Not checked | Rel-5   |
| Integrity check info           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| - Message authentication code  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| - RRC Message sequence number  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| CN domain identity             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| Intra Domain NAS Node Selector |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| NAS message                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| START                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| Establishment cause            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |
| Measured results on RACH       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |

## Contents of MBMS GENERAL INFORMATION message: UM (3.84 Mcps TDD)

| Information Element                         | Value/remark    | Version |
|---------------------------------------------|-----------------|---------|
| Message type                                |                 | Rel-6   |
| MBMS preferred frequency information        | Not Present     | Rel-6   |
| MBMS timers and counters                    |                 | Rel-6   |
| - T318                                      | 4000 ms         | Rel-6   |
| MICH configuration information              |                 | Rel-6   |
| - MICH Power offset                         | -5dB            | Rel-6   |
| - CHOICE Mode                               | TDD             | Rel-6   |
| - Timeslot Number                           | 1               | Rel-6   |
| - CHOICE TDD option                         | 3.84 Mcps       | Rel-6   |
| - CHOICE Burst Type                         | Type 1          | Rel-6   |
| - Midamble allocation mode                  | Default         | Rel-6   |
| - Midamble configuration burst type 1 and 3 | 8               | Rel-6   |
| - CHOICE TDD option                         | 3.84 Mcps TDD   | Rel-6   |
| - Chanelisation code                        | 16/1            | Rel-6   |
| - Repetition period/length                  | (4,2)           | Rel-6   |
| - Offset                                    | 0               | Rel-6   |
| - MBMS Notification indicator length        | 4               | Rel-6   |
| Cell group identity                         | '0000000000001' | Rel-6   |
| Default MSCH configuration information      | Not Present     | Rel-6   |
| Indicate changes in MBMS Selected Services  | FALSE           | Rel-6   |

Contents of MBMS GENERAL INFORMATION message: UM (1.28 Mcps TDD)

| Information Element                        | Value/remark     | Version |
|--------------------------------------------|------------------|---------|
| Message type                               |                  | Rel-6   |
| MBMS preferred frequency information       | Not Present      | Rel-6   |
| MBMS timers and counters                   |                  | Rel-6   |
| - T318                                     | 4000 ms          | Rel-6   |
| MICH configuration information             |                  | Rel-6   |
| - MICH Power offset                        | -5dB             | Rel-6   |
| - CHOICE Mode                              | TDD              | Rel-6   |
| - Timeslot Number                          | 1                | Rel-6   |
| - Midamble shift and burst type            |                  |         |
| - CHOICE TDD option                        | 1.28 Mcps TDD    | Rel-6   |
| - Midamble Allocation Mode                 | Default midamble | Rel-6   |
| - Midamble configuration                   | 16               | Rel-6   |
| - Midamble Shift                           | Not Present      | Rel-6   |
| - CHOICE TDD option                        | 1.28 Mcps TDD    | Rel-6   |
| - Chanelisation code                       | 16/15            | Rel-6   |
| - Repetition period/length                 | (4,2)            | Rel-6   |
| - Offset                                   | 0                | Rel-6   |
| - MBMS Notification indicator length       | 4                | Rel-6   |
| Cell group identity                        | '000000000001'   | Rel-6   |
| Default MSCH configuration information     | Not Present      | Rel-6   |
| Indicate changes in MBMS Selected Services | FALSE            | Rel-6   |

Contents of MBMS GENERAL INFORMATION message: UM (7.68 Mcps TDD)

| Information Element                         | Value/remark   | Version |
|---------------------------------------------|----------------|---------|
| Message type                                |                | Rel-6   |
| MBMS preferred frequency information        | Not Present    | Rel-6   |
| MBMS timers and counters                    |                | Rel-6   |
| - T318                                      | 4000 ms        | Rel-6   |
| MICH configuration information              |                | Rel-6   |
| - MICH Power offset                         | -5dB           | Rel-6   |
| - CHOICE Mode                               | TDD            | Rel-6   |
| - Timeslot Number                           | 1              | Rel-6   |
| - CHOICE TDD option                         | 7.68 Mcps      | Rel-6   |
| - CHOICE Burst Type                         | Type 1         | Rel-6   |
| - Midamble allocation mode                  | Default        | Rel-6   |
| - Midamble configuration burst type 1 and 3 | 8              | Rel-6   |
| - CHOICE TDD option                         | 7.68 Mcps TDD  | Rel-6   |
| - Chanelisation code                        | 32/1           | Rel-6   |
| - Repetition period/length                  | (4,2)          | Rel-6   |
| - Offset                                    | 0              | Rel-6   |
| - MBMS Notification indicator length        | 4              | Rel-6   |
| Cell group identity                         | '000000000001' | Rel-6   |
| Default MSCH configuration information      | Not Present    | Rel-6   |
| Indicate changes in MBMS Selected Services  | FALSE          | Rel-6   |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (3.84 Mcps)

| Information Element                    | Value/remark          | Version |
|----------------------------------------|-----------------------|---------|
| Message type                           |                       | Rel-6   |
| RB information list                    | 2 entries in the list | Rel-6   |
| - RB identity                          | 14                    | Rel-6   |
| - PDCP info                            |                       |         |
| - Support for lossless SRNS relocation | Not Present           |         |
| - PDCP PDU header                      | absent                |         |
| - Header compression information       | Not Present           |         |

| Information Element                            | Value/remark                                                         | Version |
|------------------------------------------------|----------------------------------------------------------------------|---------|
| - RLC info                                     |                                                                      |         |
| - DL UM RLC LI size                            | 7                                                                    |         |
| - DL Duplication Avoidance and Reordering info | Not Present                                                          |         |
| - RB identity                                  | 15                                                                   | Rel-6   |
| - PDCP info                                    |                                                                      |         |
| - Support for lossless SRNS relocation         | Not Present                                                          |         |
| - PDCP PDU header                              | absent                                                               |         |
| - Header compression information               | Not Present                                                          |         |
| - RLC info                                     |                                                                      |         |
| - DL UM RLC LI size                            | 7                                                                    |         |
| - DL Duplication Avoidance and Reordering info | Not Present                                                          |         |
| TrCh information for each TrCh                 | 2 entries in the list                                                | Rel-6   |
| - Transport channel identity                   | 1                                                                    | Rel-6   |
| - TFS                                          |                                                                      |         |
| - CHOICE <i>Transport channel type</i>         | Common transport channels                                            |         |
| - Dynamic Transport format information         |                                                                      |         |
| - RLC Size                                     | Reference to clause 6.10 parameter set                               |         |
| - Number of TBs List                           | (This IE is repeated for TFI number.)                                |         |
| - Transmission Time Interval                   | Not Present                                                          |         |
| - Number of Transport blocks                   | Reference to clause 6.10 parameter set                               |         |
| - CHOICE <i>Logical channel list</i>           | All                                                                  |         |
| - Semi-static Transport Format information     |                                                                      |         |
| - Transmission time interval                   | Reference to clause 6.10 parameter set                               |         |
| - Type of channel coding                       | Reference to clause 6.10 parameter set                               |         |
| - Coding Rate                                  | Reference to clause 6.10 parameter set                               |         |
| - Rate matching attribute                      | Reference to clause 6.10 parameter set                               |         |
| - CRC size                                     | Reference to clause 6.10 parameter set                               |         |
| - Transport channel identity                   | 2                                                                    | Rel-6   |
| - TFS                                          |                                                                      |         |
| - CHOICE <i>Transport channel type</i>         | Common transport channels                                            |         |
| - Dynamic Transport format information         |                                                                      |         |
| - RLC Size                                     | Reference to clause 6.10 parameter set                               |         |
| - Number of TBs List                           | (This IE is repeated for TFI number.)                                |         |
| - Transmission Time Interval                   | Not Present                                                          |         |
| - Number of Transport blocks                   | Reference to clause 6.10 parameter set                               |         |
| - CHOICE <i>Logical channel list</i>           | All                                                                  |         |
| - Semi-static Transport Format information     |                                                                      |         |
| - Transmission time interval                   | Reference to clause 6.10 parameter set                               |         |
| - Type of channel coding                       | Reference to clause 6.10 parameter set                               |         |
| - Coding Rate                                  | Reference to clause 6.10 parameter set                               |         |
| - Rate matching attribute                      | Reference to clause 6.10 parameter set                               |         |
| - CRC size                                     | Reference to clause 6.10 parameter set                               |         |
| TrCh information for each CCTrCh               | 2 entries in the list                                                | Rel-6   |
| - CCTrCH identity                              | 1                                                                    | Rel-6   |
| - TFCS                                         |                                                                      |         |
| - CHOICE <i>TFCI signalling</i>                | Normal                                                               |         |
| - TFCI Field 1 information                     |                                                                      |         |
| - CHOICE <i>TFCS representation</i>            | Complete reconfiguration                                             |         |
| - TFCS complete reconfiguration information    |                                                                      |         |
| - CHOICE CTFC Size                             | Number of bits used must be enough to cover all combinations of CTFC |         |

| Information Element                         | Value/remark                                                                           | Version |
|---------------------------------------------|----------------------------------------------------------------------------------------|---------|
|                                             | from clause 6.10.                                                                      |         |
| - CTFC information                          | This IE is repeated for number of CTFCs in clause 6.10 "Parameter Set"                 |         |
| - CTFC                                      | Reference to clause 6.10 "Parameter Set"                                               |         |
| - Power offset information                  | <b>Not Present</b>                                                                     |         |
| - CCTrCH identity                           | 2                                                                                      | Rel-6   |
| - TFCS                                      |                                                                                        |         |
| - CHOICE <i>TFCI signalling</i>             | Normal                                                                                 |         |
| - TFCI Field 1 information                  |                                                                                        |         |
| - CHOICE <i>TFCS representation</i>         | Complete reconfiguration                                                               |         |
| - TFCS complete reconfiguration information |                                                                                        |         |
| - CHOICE CTFC Size                          | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. |         |
| - CTFC information                          | This IE is repeated for number of CTFCs in clause 6.10 "Parameter Set"                 |         |
| - CTFC                                      | Reference to clause 6.10 "Parameter Set"                                               |         |
| - Power offset information                  | <b>Not Present</b>                                                                     |         |

| Information Element                         | Value/remark                             | Version |
|---------------------------------------------|------------------------------------------|---------|
| PhyCh information                           | 2 entries in list                        | Rel-6   |
| - PhyCh identity                            | 13                                       | Rel-6   |
| - Secondary CCPCH info MBMS                 |                                          | Rel-6   |
| - CHOICE <i>mode</i>                        | 1.28/3.84 Mcps TDD                       | Rel-6   |
| - 2 <sup>nd</sup> interleaving mode         | Frame                                    | Rel-6   |
| - TFCI coding                               | Reference to clause 6.10 "Parameter Set" | Rel-6   |
| - Puncturing limit                          | Reference to clause 6.10 "Parameter Set" | Rel-6   |
| - Timeslot number                           | 2                                        | Rel-6   |
| - TFCI information                          | TRUE                                     | Rel-6   |
| - CHOICE Burst Type                         | Reference to clause 6.10 "Parameter Set" | Rel-6   |
| - Midamble allocation mode                  | Default                                  | Rel-6   |
| - Midamble configuration burst type 1 and 3 | 8                                        | Rel-6   |
| - CHOICE TDD option                         | 3.84Mcps TDD                             | Rel-6   |
| - CHOICE codes representation               | Consecutive codes                        | Rel-6   |
| - First channelisation code                 | Reference to clause 6.10 "Parameter Set" | Rel-6   |
| - Last channelisation code                  | Reference to clause 6.10 "Parameter Set" | Rel-6   |
| - CHOICE more timeslots                     | No more timeslots                        | Rel-6   |
| - Modulation                                | Reference to clause 6.10 "Parameter Set" | Rel-7   |
| - PhyCh identity                            | 17                                       | Rel-6   |
| - Secondary CCPCH info MBMS                 |                                          | Rel-6   |
| - CHOICE <i>mode</i>                        | 1.28/3.84 Mcps TDD                       | Rel-6   |
| - 2 <sup>nd</sup> interleaving mode         | Frame                                    | Rel-6   |
| - TFCI coding                               | Reference to clause 6.10 "Parameter Set" | Rel-6   |
| - Puncturing limit                          | Reference to clause 6.10 "Parameter Set" | Rel-6   |
| - Timeslot number                           | 2                                        | Rel-6   |
| - TFCI information                          | TRUE                                     | Rel-6   |
| - CHOICE Burst Type                         | Reference to clause 6.10 "Parameter Set" | Rel-6   |
| - Midamble allocation mode                  | Default                                  | Rel-6   |
| - Midamble configuration burst type 1 and 3 | 8                                        | Rel-6   |
| - CHOICE TDD option                         | 3.84Mcps TDD                             | Rel-6   |
| - CHOICE codes representation               | Consecutive codes                        | Rel-6   |
| - First channelisation code                 | Reference to clause 6.10 "Parameter Set" | Rel-6   |
| - Last channelisation code                  | Reference to clause 6.10 "Parameter Set" | Rel-6   |
| - CHOICE more timeslots                     | No more timeslots                        | Rel-6   |
| - Modulation                                | Reference to clause 6.10 "Parameter Set" | Rel-7   |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (1.28 Mcps TDD)

| Information Element                    | Value/remark          | Version |
|----------------------------------------|-----------------------|---------|
| Message type                           |                       | Rel-6   |
| RB information list                    | 2 entries in the list | Rel-6   |
| - RB identity                          | 14                    | Rel-6   |
| - PDCP info                            |                       |         |
| - Support for lossless SRNS relocation | Not Present           |         |
| - PDCP PDU header                      | absent                |         |
| - Header compression information       | Not Present           |         |

| Information Element                            | Value/remark                                                         | Version |
|------------------------------------------------|----------------------------------------------------------------------|---------|
| - RLC info                                     |                                                                      |         |
| - DL UM RLC LI size                            | 7                                                                    |         |
| - DL Duplication Avoidance and Reordering info | Not Present                                                          |         |
| - RB identity                                  | 15                                                                   | Rel-6   |
| - PDCP info                                    |                                                                      |         |
| - Support for lossless SRNS relocation         | Not Present                                                          |         |
| - PDCP PDU header                              | absent                                                               |         |
| - Header compression information               | Not Present                                                          |         |
| - RLC info                                     |                                                                      |         |
| - DL UM RLC LI size                            | 7                                                                    |         |
| - DL Duplication Avoidance and Reordering info | Not Present                                                          |         |
| TrCh information for each TrCh                 | 2 entries in the list                                                | Rel-6   |
| - Transport channel identity                   | 1                                                                    | Rel-6   |
| - TFS                                          |                                                                      |         |
| - CHOICE <i>Transport channel type</i>         | Common transport channels                                            |         |
| - Dynamic Transport format information         |                                                                      |         |
| - RLC Size                                     | Reference to clause 6.11 parameter set                               |         |
| - Number of TBs List                           | (This IE is repeated for TFI number.)                                |         |
| - Transmission Time Interval                   | Not Present                                                          |         |
| - Number of Transport blocks                   | Reference to clause 6.11 parameter set                               |         |
| - CHOICE <i>Logical channel list</i>           | All                                                                  |         |
| - Semi-static Transport Format information     |                                                                      |         |
| - Transmission time interval                   | Reference to clause 6.11 parameter set                               |         |
| - Type of channel coding                       | Reference to clause 6.11 parameter set                               |         |
| - Coding Rate                                  | Reference to clause 6.11 parameter set                               |         |
| - Rate matching attribute                      | Reference to clause 6.11 parameter set                               |         |
| - CRC size                                     | Reference to clause 6.11 parameter set                               |         |
| - Transport channel identity                   | 2                                                                    | Rel-6   |
| - TFS                                          |                                                                      |         |
| - CHOICE <i>Transport channel type</i>         | Common transport channels                                            |         |
| - Dynamic Transport format information         |                                                                      |         |
| - RLC Size                                     | Reference to clause 6.11 parameter set                               |         |
| - Number of TBs List                           | (This IE is repeated for TFI number.)                                |         |
| - Transmission Time Interval                   | Not Present                                                          |         |
| - Number of Transport blocks                   | Reference to clause 6.11 parameter set                               |         |
| - CHOICE <i>Logical channel list</i>           | All                                                                  |         |
| - Semi-static Transport Format information     |                                                                      |         |
| - Transmission time interval                   | Reference to clause 6.11 parameter set                               |         |
| - Type of channel coding                       | Reference to clause 6.11 parameter set                               |         |
| - Coding Rate                                  | Reference to clause 6.11 parameter set                               |         |
| - Rate matching attribute                      | Reference to clause 6.11 parameter set                               |         |
| - CRC size                                     | Reference to clause 6.11 parameter set                               |         |
| TrCh information for each CCTrCh               | 2 entries in the list                                                | Rel-6   |
| - CCTrCH identity                              | 1                                                                    | Rel-6   |
| - TFCS                                         |                                                                      |         |
| - CHOICE <i>TFCI signalling</i>                | Normal                                                               |         |
| - TFCI Field 1 information                     |                                                                      |         |
| - CHOICE <i>TFCS representation</i>            | Complete reconfiguration                                             |         |
| - TFCS complete reconfiguration information    |                                                                      |         |
| - CHOICE CTFC Size                             | Number of bits used must be enough to cover all combinations of CTFC |         |



| Information Element                         | Value/remark                                                                           | Version |
|---------------------------------------------|----------------------------------------------------------------------------------------|---------|
|                                             | from clause 6.11.                                                                      |         |
| - CTFC information                          | This IE is repeated for number of CTFCs in clause 6.11 "Parameter Set"                 |         |
| - CTFC                                      | Reference to clause 6.11 "Parameter Set"                                               |         |
| - Power offset information                  | Not Present                                                                            |         |
| - CCTrCH identity                           | 2                                                                                      | Rel-6   |
| - TFCS                                      |                                                                                        |         |
| - CHOICE <i>TFCI signalling</i>             | Normal                                                                                 |         |
| - TFCI Field 1 information                  |                                                                                        |         |
| - CHOICE <i>TFCS representation</i>         | Complete reconfiguration                                                               |         |
| - TFCS complete reconfiguration information |                                                                                        |         |
| - CHOICE CTFC Size                          | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11. |         |
| - CTFC information                          | This IE is repeated for number of CTFCs in clause 6.11 "Parameter Set"                 |         |
| - CTFC                                      | Reference to clause 6.11 "Parameter Set"                                               |         |
| - Power offset information                  | Not Present                                                                            |         |

| Information Element                   | Value/remark                             | Version |
|---------------------------------------|------------------------------------------|---------|
| PhyCh information                     | 2 entries in list                        | Rel-6   |
| - PhyCh identity                      | 13                                       | Rel-6   |
| - Secondary CCPCH info MBMS           |                                          |         |
| - CHOICE <i>mode</i>                  | 1.28/3.84 Mcps TDD                       |         |
| - Common timeslot info MBMS           |                                          |         |
| - 2 <sup>nd</sup> interleaving mode   | Frame                                    |         |
| - TFCI coding                         | Reference to clause 6.11 "Parameter Set" |         |
| - Puncturing limit                    | Reference to clause 6.11 "Parameter Set" |         |
| - Downlink Timeslots and Codes        |                                          |         |
| - First Individual timeslot info      |                                          |         |
| - Timeslot number                     | 4                                        |         |
| - TFCI information                    | TRUE                                     |         |
| - Midamble Shift and burst type       |                                          |         |
| - Midamble allocation mode            | Default midamble                         |         |
| - Midamble configuration              | 16                                       |         |
| - Midamble Shift                      | Not Present                              |         |
| - CHOICE TDD option                   | 1.28Mcps TDD                             |         |
| - Modulation                          | QPSK                                     |         |
| - SS-TPC Symbols                      | 1                                        |         |
| - Additional TPC-SS Symbols           | Not Present                              |         |
| - First timeslot channelisation codes |                                          |         |
| - CHOICE codes representation         | Consecutive codes                        |         |
| - First channelisation code           | Reference to clause 6.11 "Parameter Set" |         |
| - Last channelisation code            | Reference to clause 6.11 "Parameter Set" |         |
| - CHOICE more timeslots               | No more timeslots                        |         |
| - Modulation                          | Reference to clause 6.11 "Parameter Set" |         |
| - PhyCh identity                      | 17                                       | Rel-6   |
| - Secondary CCPCH info MBMS           |                                          |         |
| - CHOICE <i>mode</i>                  | 1.28/3.84 Mcps TDD                       |         |
| - Common timeslot info MBMS           |                                          |         |
| - 2 <sup>nd</sup> interleaving mode   | Frame                                    |         |
| - TFCI coding                         | Reference to clause 6.11 "Parameter Set" |         |
| - Puncturing limit                    | Reference to clause 6.11 "Parameter Set" |         |
| - Downlink Timeslots and Codes        |                                          |         |
| - First Individual timeslot info      |                                          |         |
| - Timeslot number                     | 4                                        |         |
| - TFCI information                    | TRUE                                     |         |
| - Midamble Shift and burst type       |                                          |         |
| - Midamble allocation mode            | Default midamble                         |         |
| - Midamble configuration              | 16                                       |         |
| - Midamble Shift                      | Not Present                              |         |
| - CHOICE TDD option                   | 1.28Mcps TDD                             |         |
| - Modulation                          | QPSK                                     |         |
| - SS-TPC Symbols                      | 1                                        |         |
| - Additional TPC-SS Symbols           | Not Present                              |         |
| - First timeslot channelisation codes |                                          |         |
| - CHOICE codes representation         | Consecutive codes                        |         |
| - First channelisation code           | Reference to clause 6.11 "Parameter Set" |         |
| - Last channelisation code            | Reference to clause 6.11 "Parameter Set" |         |
| - CHOICE more timeslots               | No more timeslots                        |         |
| - Modulation                          | Reference to clause 6.11 "Parameter Set" |         |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (7.68 Mcps)

| Information Element                            | Value/remark          | Version |
|------------------------------------------------|-----------------------|---------|
| Message type                                   |                       | Rel-6   |
| RB information list                            | 2 entries in the list | Rel-6   |
| - RB identity                                  | 14                    | Rel-6   |
| - PDCP info                                    |                       |         |
| - Support for lossless SRNS relocation         | Not Present           |         |
| - PDCP PDU header                              | absent                |         |
| - Header compression information               | Not Present           |         |
| - RLC info                                     |                       |         |
| - DL UM RLC LI size                            | 7                     |         |
| - DL Duplication Avoidance and Reordering info | Not Present           |         |
| - RB identity                                  | 15                    | Rel-6   |
| - PDCP info                                    |                       |         |
| - Support for lossless SRNS relocation         | Not Present           |         |
| - PDCP PDU header                              | absent                |         |
| - Header compression information               | Not Present           |         |

| Information Element                            | Value/remark                                                                           | Version |
|------------------------------------------------|----------------------------------------------------------------------------------------|---------|
| - RLC info                                     |                                                                                        |         |
| - DL UM RLC LI size                            | 7                                                                                      |         |
| - DL Duplication Avoidance and Reordering info | Not Present                                                                            |         |
| TrCh information for each TrCh                 | 2 entries in the list                                                                  | Rel-6   |
| - Transport channel identity                   | 1                                                                                      | Rel-6   |
| - TFS                                          |                                                                                        |         |
| - CHOICE <i>Transport channel type</i>         | Common transport channels                                                              |         |
| - Dynamic Transport format information         |                                                                                        |         |
| - RLC Size                                     | Reference to clause 6.10 parameter set                                                 |         |
| - Number of TBs List                           | (This IE is repeated for TFI number.)                                                  |         |
| - Transmission Time Interval                   | Not Present                                                                            |         |
| - Number of Transport blocks                   | Reference to clause 6.10 parameter set                                                 |         |
| - CHOICE <i>Logical channel list</i>           | All                                                                                    |         |
| - Semi-static Transport Format information     |                                                                                        |         |
| - Transmission time interval                   | Reference to clause 6.10 parameter set                                                 |         |
| - Type of channel coding                       | Reference to clause 6.10 parameter set                                                 |         |
| - Coding Rate                                  | Reference to clause 6.10 parameter set                                                 |         |
| - Rate matching attribute                      | Reference to clause 6.10 parameter set                                                 |         |
| - CRC size                                     | Reference to clause 6.10 parameter set                                                 |         |
| - Transport channel identity                   | 2                                                                                      | Rel-6   |
| - TFS                                          |                                                                                        |         |
| - CHOICE <i>Transport channel type</i>         | Common transport channels                                                              |         |
| - Dynamic Transport format information         |                                                                                        |         |
| - RLC Size                                     | Reference to clause 6.10 parameter set                                                 |         |
| - Number of TBs List                           | (This IE is repeated for TFI number.)                                                  |         |
| - Transmission Time Interval                   | Not Present                                                                            |         |
| - Number of Transport blocks                   | Reference to clause 6.10 parameter set                                                 |         |
| - CHOICE <i>Logical channel list</i>           | All                                                                                    |         |
| - Semi-static Transport Format information     |                                                                                        |         |
| - Transmission time interval                   | Reference to clause 6.10 parameter set                                                 |         |
| - Type of channel coding                       | Reference to clause 6.10 parameter set                                                 |         |
| - Coding Rate                                  | Reference to clause 6.10 parameter set                                                 |         |
| - Rate matching attribute                      | Reference to clause 6.10 parameter set                                                 |         |
| - CRC size                                     | Reference to clause 6.10 parameter set                                                 |         |
| TrCh information for each CCTrCh               | 2 entries in the list                                                                  | Rel-6   |
| - CCTrCH identity                              | 1                                                                                      | Rel-6   |
| - TFCS                                         |                                                                                        |         |
| - CHOICE <i>TFCI signalling</i>                | Normal                                                                                 |         |
| - TFCI Field 1 information                     |                                                                                        |         |
| - CHOICE <i>TFCS representation</i>            | Complete reconfiguration                                                               |         |
| - TFCS complete reconfiguration information    |                                                                                        |         |
| - CHOICE CTFC Size                             | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. |         |
| - CTFC information                             | This IE is repeated for number of CTFCs in clause 6.10 "Parameter Set"                 |         |
| - CTFC                                         | Reference to clause 6.10 "Parameter Set"                                               |         |
| - Power offset information                     | <b>Not Present</b>                                                                     |         |

| Information Element                         | Value/remark                                                                           | Version |
|---------------------------------------------|----------------------------------------------------------------------------------------|---------|
| - CCTrCH identity                           | 2                                                                                      | Rel-6   |
| - TFCS                                      |                                                                                        |         |
| - CHOICE <i>TFCI signalling</i>             | Normal                                                                                 |         |
| - TFCI Field 1 information                  |                                                                                        |         |
| - CHOICE <i>TFCS representation</i>         | Complete reconfiguration                                                               |         |
| - TFCS complete reconfiguration information |                                                                                        |         |
| - CHOICE CTFC Size                          | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. |         |
| - CTFC information                          | This IE is repeated for number of CTFCs in clause 6.10 "Parameter Set"                 |         |
| - CTFC                                      | Reference to clause 6.10 "Parameter Set"                                               |         |
| - Power offset information                  | <b>Not Present</b>                                                                     |         |
| PhyCh information                           | 2 entries in list                                                                      | Rel-6   |
| - PhyCh identity                            | 13                                                                                     | Rel-6   |
| - Secondary CCPCH info MBMS                 |                                                                                        | Rel-6   |
| - CHOICE <i>mode</i>                        | 7.68 Mcps TDD                                                                          | Rel-6   |
| - 2 <sup>nd</sup> interleaving mode         | Frame                                                                                  | Rel-6   |
| - TFCI coding                               | Reference to clause 6.10 "Parameter Set"                                               | Rel-6   |
| - Puncturing limit                          | Reference to clause 6.10 "Parameter Set"                                               | Rel-6   |
| - Timeslot number                           | 2                                                                                      | Rel-6   |
| - TFCI information                          | TRUE                                                                                   | Rel-6   |
| - CHOICE Burst Type                         | Reference to clause 6.10 "Parameter Set"                                               | Rel-6   |
| - Midamble allocation mode                  | Default                                                                                | Rel-6   |
| - Midamble configuration burst type 1 and 3 | 8                                                                                      | Rel-6   |
| - CHOICE TDD option                         | 3.84Mcps TDD                                                                           | Rel-6   |
| - CHOICE codes representation               | Consecutive codes                                                                      | Rel-6   |
| - First channelisation code                 | Reference to clause 6.10 "Parameter Set"                                               | Rel-6   |
| - Last channelisation code                  | Reference to clause 6.10 "Parameter Set"                                               | Rel-6   |
| - CHOICE more timeslots                     | No more timeslots                                                                      | Rel-6   |
| - Modulation                                | Reference to clause 6.10 "Parameter Set"                                               | Rel-7   |
| - PhyCh identity                            | 17                                                                                     | Rel-6   |
| - Secondary CCPCH info MBMS                 |                                                                                        | Rel-6   |
| - CHOICE <i>mode</i>                        | 1.28/3.84 Mcps TDD                                                                     | Rel-6   |
| - 2 <sup>nd</sup> interleaving mode         | Frame                                                                                  | Rel-6   |
| - TFCI coding                               | Reference to clause 6.10 "Parameter Set"                                               | Rel-6   |
| - Puncturing limit                          | Reference to clause 6.10 "Parameter Set"                                               | Rel-6   |
| - Timeslot number                           | 2                                                                                      | Rel-6   |
| - TFCI information                          | TRUE                                                                                   | Rel-6   |
| - CHOICE Burst Type                         | Reference to clause 6.10 "Parameter Set"                                               | Rel-6   |
| - Midamble allocation mode                  | Default                                                                                | Rel-6   |
| - Midamble configuration burst type 1 and 3 | 8                                                                                      | Rel-6   |
| - CHOICE TDD option                         | 3.84Mcps TDD                                                                           | Rel-6   |
| - CHOICE codes representation               | Consecutive codes                                                                      | Rel-6   |
| - First channelisation code                 | Reference to clause 6.10 "Parameter Set"                                               | Rel-6   |
| - Last channelisation code                  | Reference to clause 6.10 "Parameter Set"                                               | Rel-6   |
| - CHOICE more timeslots                     | No more timeslots                                                                      | Rel-6   |
| - Modulation                                | Reference to clause 6.10 "Parameter Set"                                               | Rel-7   |

Contents of MBMS CURRENT CELL P-T-M RB INFORMATION message: UM

| Information Element                    | Condition  | Value/remark                                                                                              | Version |
|----------------------------------------|------------|-----------------------------------------------------------------------------------------------------------|---------|
| Message type                           | A1, A2, A3 |                                                                                                           | Rel-6   |
| S-CCPCH list                           | A1         | Not Present                                                                                               | Rel-6   |
| S-CCPCH list                           | A2         | Contains 1 S-CCPCH                                                                                        | Rel-6   |
| S-CCPCH list                           | A3         | Contains 2 S-CCPCH                                                                                        | Rel-6   |
| - S-CCPCH identity                     | A2, A3     | Not Present                                                                                               | Rel-6   |
| - Secondary CCPCH info                 |            | 1                                                                                                         | Rel-6   |
| - MBMS Soft Combining Timing Offset    |            | Not Present                                                                                               | Rel-6   |
| - TrCh information common for all TrCh |            | 1                                                                                                         | Rel-6   |
| - TrCH information list                |            |                                                                                                           | Rel-6   |
| - TrCh information                     |            | 1                                                                                                         | Rel-6   |
| - RB information list                  |            |                                                                                                           | Rel-6   |
| - RB information                       |            | 1                                                                                                         | Rel-6   |
| - MBMS short transmission ID           |            | Refers to the index of the service in the list of services on the cell which is being provided on this RB | Rel-6   |
| - MBMS logical channel identity        |            | 1                                                                                                         | Rel-6   |
| - MSCH configuration information       |            | Not Present                                                                                               | Rel-6   |
| - S-CCPCH identity                     | A3         | Not Present                                                                                               | Rel-6   |
| - Secondary CCPCH info                 |            | 2                                                                                                         | Rel-6   |
| - MBMS Soft Combining Timing Offset    |            | Not Present                                                                                               | Rel-6   |
| - TrCh information common for all TrCh |            | 2                                                                                                         | Rel-6   |
| - TrCH information list                |            |                                                                                                           | Rel-6   |
| - TrCh information                     |            | 2                                                                                                         | Rel-6   |
| - RB information list                  |            |                                                                                                           | Rel-6   |
| - RB information                       |            | 2                                                                                                         | Rel-6   |
| - MBMS short transmission ID           |            | Refers to the index of the service in the list of services on the cell which is being provided on this RB | Rel-6   |
| - MBMS logical channel identity        |            | 2                                                                                                         | Rel-6   |
| - MSCH configuration information       |            | Not Present                                                                                               | Rel-6   |
| S-CCPCH in SIB type 5                  | A1, A2, A3 | Not Present                                                                                               | Rel-6   |

| Condition | Explanation                     |
|-----------|---------------------------------|
| A1        | No services ongoing or starting |
| A2        | 1 service ongoing or starting   |
| A3        | 2 services ongoing or starting  |

Contents of MBMS MODIFIED SERVICES INFORMATION message: UM

| Information Element                | Value/remark                                                                                                                     | Version |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------|
| Message type                       |                                                                                                                                  | Rel-6   |
| Modified services list             | 1 entry per modified service - maximum 12. If no services are modified in the current modification period this IE is Not Present | Rel-6   |
| - MBMS Transmission identity       |                                                                                                                                  | Rel-6   |
| - MBMS Service ID                  |                                                                                                                                  |         |
| - MBMS Service ID                  | Set to the value of the service ID being modified (e.g. '000001')                                                                | Rel-6   |
| - CHOICE PLMN identity             | SameAs-MIB                                                                                                                       | Rel-6   |
| - MBMS Session ID                  | '01'                                                                                                                             | Rel-6   |
| - MBMS required UE action          | Acquire PTM RB info                                                                                                              | Rel-6   |
| - MBMS preferred frequency         | Not Present                                                                                                                      | Rel-6   |
| - MBMS dispersion indicator        | Not Present                                                                                                                      | Rel-6   |
| - Continue MCCH reading            | FALSE                                                                                                                            | Rel-6   |
| MBMS re- acquire MCCH              | Not Present                                                                                                                      | Rel-6   |
| MBMS dynamic persistence level     | Not Present                                                                                                                      | Rel-6   |
| End of modified MCCH information   | Not Present                                                                                                                      | Rel-6   |
| MBMS number of neighbour cells     | 0                                                                                                                                | Rel-6   |
| MBMS all unmodified p-t-m services | Not Present                                                                                                                      | Rel-6   |
| MBMS p-t-m activation time         | Set to the 11 LSB of the first SFN of the next modification period.                                                              | Rel-6   |

## Contents of MBMS UNMODIFIED SERVICES INFORMATION message: UM

| Information Element          | Value/remark                                        | Version |
|------------------------------|-----------------------------------------------------|---------|
| Message type                 |                                                     | Rel-6   |
| Unmodified services list     | 12 services by default. See NOTE 1.                 | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000001'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000002'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000003'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000004'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000005'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000006'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000007'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000008'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '000009'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |



| Information Element          | Value/remark                                        | Version |
|------------------------------|-----------------------------------------------------|---------|
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '00000A'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '00000B'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |
| - MBMS Transmission identity |                                                     | Rel-6   |
| - MBMS Service ID            |                                                     |         |
| - MBMS Service ID            | '00000C'                                            | Rel-6   |
| - CHOICE PLMN identity       | SameAs-MIB                                          | Rel-6   |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 | Rel-6   |
| - MBMS preferred frequency   | Not Present                                         | Rel-6   |

| Information Element       | Condition | Value/remark          | Explanation                                                        |
|---------------------------|-----------|-----------------------|--------------------------------------------------------------------|
| - MBMS Session ID         | A1        | Not Present           | Condition used when the session is currently not being transmitted |
| - MBMS required UE action |           | 'None'                |                                                                    |
| - MBMS Session ID         | A2        | '01'                  | Condition used when the session is currently ongoing               |
| - MBMS required UE action |           | 'Acquire PTM RB info' |                                                                    |

NOTE 1: Any service ID which is included in MBMS MODIFIED SERVICES INFORMATION in the current modification period shall be Not Present in the list of services in this message.

Contents of PAGING TYPE 1 message: TM (Speech in CS)

| Information Element           | Value/remark                                                        |
|-------------------------------|---------------------------------------------------------------------|
| Message Type                  |                                                                     |
| Paging record list            |                                                                     |
| - Paging record               |                                                                     |
| - CHOICE Used paging identity | CN identity                                                         |
| - Paging cause                | Terminating Conversational Call                                     |
| - CN domain identity          | CS domain                                                           |
| - CHOICE UE identity          |                                                                     |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the USIM card |
| BCCH modification info        | Not Present                                                         |

Contents of PAGING TYPE 1 message: TM (The others of speech in CS)

| Information Element           | Value/remark                                                        |
|-------------------------------|---------------------------------------------------------------------|
| Message Type                  |                                                                     |
| Paging record list            |                                                                     |
| - Paging record               |                                                                     |
| - CHOICE Used paging identity | CN identity                                                         |
| - Paging cause                | Terminating Streaming Call                                          |
| - CN domain identity          | CS domain                                                           |
| - CHOICE UE identity          |                                                                     |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the USIM card |

|                        |             |
|------------------------|-------------|
| BCCH modification info | Not Present |
|------------------------|-------------|

Contents of PAGING TYPE 1 message: TM (Packet in PS)

| Information Element           | Value/remark                                                        |
|-------------------------------|---------------------------------------------------------------------|
| Message Type                  |                                                                     |
| Paging record list            |                                                                     |
| - Paging record               |                                                                     |
| - CHOICE Used paging identity | CN identity                                                         |
| - Paging cause                | Terminating Interactive Call                                        |
| - CN domain identity          | PS domain                                                           |
| - CHOICE UE identity          |                                                                     |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the USIM card |
| BCCH modification info        | Not Present                                                         |

Contents of RADIO BEARER SETUP message: AM or UM (3.84 Mcps TDD)

| Information Element            | Condition                                                        | Value/remark                                                                                                                                                      | Version        | Index                            |
|--------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------|
| Message Type                   | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10                     |                                                                                                                                                                   | Rel-5          | RBS3-001                         |
| RRC transaction identifier     |                                                                  | Arbitrarily selects an integer between 0 and 3                                                                                                                    | Rel-6          | RBS3-002<br>RBS3-003<br>RBS3-004 |
| Integrity check info           |                                                                  |                                                                                                                                                                   |                | RBS3-005                         |
| - message authentication code  |                                                                  | SS calculates the value of MAC-I for this message and writes to this IE. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I. |                | RBS3-006                         |
| - RRC message sequence number  |                                                                  | SS provides the value of this IE, from its internal counter.                                                                                                      |                | RBS3-007                         |
| Integrity protection mode info |                                                                  | Not Present                                                                                                                                                       |                | RBS3-008                         |
| Ciphering mode info            |                                                                  | Not Present                                                                                                                                                       |                | RBS3-009                         |
| Activation time                | A1, A2, A3, A11, A9                                              | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                  | Rel-5          | RBS3-010                         |
| Activation time                | A4, A5, A6, A7, A8, A10                                          | Not Present                                                                                                                                                       | Rel-6          | RBS3-011<br>RBS3-012<br>RBS3-013 |
| New U-RNTI                     | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10                     | Not Present                                                                                                                                                       | Rel-5          | RBS3-014<br>RBS3-015             |
| New C-RNTI                     | A1, A2, A3, A4, A7, A8, A11, A9, A10                             | Not Present                                                                                                                                                       | Rel-5<br>Rel-6 | RBS3-016<br>RBS3-017<br>RBS3-018 |
| New C-RNTI                     | A5, A6                                                           | '1010 1010 1010 1010'                                                                                                                                             | Rel-5<br>Rel-6 | RBS3-019<br>RBS3-020             |
| New DSCH-RNTI                  | A1, A2, A3, A4, A5, A6, A7, A8, A11                              | Not Present                                                                                                                                                       |                | RBS3-021<br>RBS3-022             |
| New H-RNTI                     | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12, A13, A14, A15 | Not Present                                                                                                                                                       | Rel-5          | RBS3-023                         |
| New H-RNTI                     |                                                                  | '1010 1010 1010 1010'                                                                                                                                             | Rel-5          | RBS3-024                         |
| Choice mode                    |                                                                  | TDD                                                                                                                                                               | Rel-6          | RBS3-025                         |
| - New E-RNTI                   | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11                     | Not Present                                                                                                                                                       | Rel-7          | RBS3-026<br>RBS3-027             |
| - New E-RNTI                   | A12, A13, A14, A15, A16                                          | '1010 1010 1010 1010'                                                                                                                                             | Rel-7          | RBS3-028                         |
| RRC State indicator            | A1, A2, A3, A4, A7, A8, A11, A9, A10                             | CELL_DCH                                                                                                                                                          |                | RBS3-029                         |
| RRC State indicator            | A5, A6                                                           | CELL_FACH                                                                                                                                                         | Rel-5<br>Rel-6 | RBS3-030<br>RBS3-031<br>RBS3-032 |

| Information Element                        | Condition                                                             | Value/remark                                                                                                                | Version        | Index                                                                                                                       |          |
|--------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------|----------|
| UTRAN DRX cycle length coefficient         | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16 | Not Present                                                                                                                 | Rel-5<br>Rel-7 | RBS3-033<br>RBS3-034<br>RBS3-035                                                                                            |          |
| CN information info                        | A1, A7                                                                | Not Present                                                                                                                 | Rel-6          | RBS3-036                                                                                                                    |          |
| URA identity                               |                                                                       | Not Present                                                                                                                 |                | RBS3-037                                                                                                                    |          |
| CHOICE Specification mode                  |                                                                       | Complete specification                                                                                                      |                | RBS3-038                                                                                                                    |          |
| - Signalling RB information to setup       |                                                                       | Not Present                                                                                                                 |                | RBS3-039                                                                                                                    |          |
| - RAB information for setup                |                                                                       | 0000 0001B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.<br>CS domain |                | RBS3-040                                                                                                                    |          |
| - RAB info                                 |                                                                       |                                                                                                                             |                | RBS3-041                                                                                                                    |          |
| - RAB identity                             |                                                                       |                                                                                                                             |                | RBS3-042                                                                                                                    |          |
| - CN domain identity                       |                                                                       |                                                                                                                             |                | RBS3-043                                                                                                                    |          |
| - NAS Synchronization Indicator            |                                                                       |                                                                                                                             |                | RBS3-044                                                                                                                    |          |
| - Re-establishment timer                   |                                                                       |                                                                                                                             |                | RBS3-045                                                                                                                    |          |
| - RB information to setup                  |                                                                       |                                                                                                                             |                | RBS3-046                                                                                                                    |          |
| - RB identity                              |                                                                       |                                                                                                                             |                | RBS3-047                                                                                                                    |          |
| - PDCP info                                |                                                                       |                                                                                                                             |                | RBS3-048                                                                                                                    |          |
| - CHOICE RLC info type                     |                                                                       |                                                                                                                             |                | RBS3-049                                                                                                                    |          |
| - CHOICE Uplink RLC mode                   |                                                                       | RBS3-050                                                                                                                    |                |                                                                                                                             |          |
| - Transmission RLC discard                 |                                                                       | RBS3-051                                                                                                                    |                |                                                                                                                             |          |
| - Segmentation indication                  |                                                                       | RBS3-052                                                                                                                    |                |                                                                                                                             |          |
| - CHOICE Downlink RLC mode                 |                                                                       | RBS3-053                                                                                                                    |                |                                                                                                                             |          |
| - Segmentation indication                  |                                                                       | RBS3-054                                                                                                                    |                |                                                                                                                             |          |
| - RB mapping info                          |                                                                       | RBS3-055                                                                                                                    |                |                                                                                                                             |          |
| - Information for each multiplexing option |                                                                       | RBS3-056                                                                                                                    |                |                                                                                                                             |          |
| - RLC logical channel mapping indicator    | Not Present                                                           | RBS3-057                                                                                                                    |                |                                                                                                                             |          |
| - Number of uplink RLC logical channels    | 1                                                                     | RBS3-058                                                                                                                    |                |                                                                                                                             |          |
| - Uplink transport channel type            | DCH                                                                   | RBS3-059                                                                                                                    |                |                                                                                                                             |          |
| - UL Transport channel identity            | 1                                                                     | RBS3-060                                                                                                                    |                |                                                                                                                             |          |
| - Logical channel identity                 | Not Present                                                           | RBS3-061                                                                                                                    |                |                                                                                                                             |          |
| - CHOICE RLC size list                     | Configured                                                            | RBS3-062                                                                                                                    |                |                                                                                                                             |          |
| - MAC logical channel priority             | 7                                                                     | RBS3-063                                                                                                                    |                |                                                                                                                             |          |
| - Downlink RLC logical channel info        | 1                                                                     | DCH                                                                                                                         | RBS3-064       |                                                                                                                             |          |
| - Number of downlink RLC logical channels  |                                                                       |                                                                                                                             | RBS3-065       |                                                                                                                             |          |
| - Downlink transport channel type          |                                                                       |                                                                                                                             | RBS3-066       |                                                                                                                             |          |
| - DL DCH Transport channel identity        |                                                                       |                                                                                                                             | 6              | RBS3-067                                                                                                                    |          |
| - DL DSCH Transport channel identity       |                                                                       |                                                                                                                             | Not Present    | RBS3-068                                                                                                                    |          |
| - Logical channel identity                 |                                                                       |                                                                                                                             | Not Present    | RBS3-069                                                                                                                    |          |
| - RAB information for setup                |                                                                       |                                                                                                                             | A2, A8         | 0000 0001B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.<br>CS domain | RBS3-070 |
| - RAB info                                 |                                                                       |                                                                                                                             |                |                                                                                                                             | RBS3-071 |
| - RAB identity                             |                                                                       |                                                                                                                             |                |                                                                                                                             | RBS3-072 |
| - CN domain identity                       |                                                                       |                                                                                                                             |                |                                                                                                                             | RBS3-073 |
| - NAS Synchronization Indicator            | RBS3-074                                                              |                                                                                                                             |                |                                                                                                                             |          |
| - Re-establishment timer                   | RBS3-075                                                              |                                                                                                                             |                |                                                                                                                             |          |
| - RB information to setup                  | RBS3-076                                                              |                                                                                                                             |                |                                                                                                                             |          |
| - RB identity                              | RBS3-077                                                              |                                                                                                                             |                |                                                                                                                             |          |
| - PDCP info                                | RBS3-078                                                              |                                                                                                                             |                |                                                                                                                             |          |
| - CHOICE RLC info type                     | RBS3-079                                                              |                                                                                                                             |                |                                                                                                                             |          |
| - CHOICE Uplink RLC mode                   | TM RLC                                                                | RBS3-080                                                                                                                    |                |                                                                                                                             |          |
| - Transmission RLC discard                 | Not Present                                                           | RBS3-081                                                                                                                    |                |                                                                                                                             |          |
| - Segmentation indication                  |                                                                       |                                                                                                                             | RBS3-082       |                                                                                                                             |          |
| - CHOICE Downlink RLC mode                 |                                                                       |                                                                                                                             | RBS3-083       |                                                                                                                             |          |

| Information Element                        | Condition | Value/remark | Version | Index    |
|--------------------------------------------|-----------|--------------|---------|----------|
| - Segmentation indication                  |           | FALSE        |         | RBS3-084 |
| - RB mapping info                          |           |              |         | RBS3-085 |
| - Information for each multiplexing option |           |              |         | RBS3-086 |
| - RLC logical channel mapping indicator    |           | Not Present  |         | RBS3-087 |
| - Number of uplink RLC logical channels    |           | 1            |         | RBS3-088 |
| - Uplink transport channel type            |           | DCH          |         | RBS3-089 |
| - UL Transport channel identity            |           | 1            |         | RBS3-090 |
| - Logical channel identity                 |           | Not Present  |         | RBS3-091 |
| - CHOICE RLC size list                     |           | Configured   |         | RBS3-092 |
| - MAC logical channel priority             |           | 6            |         | RBS3-093 |
| - Downlink RLC logical channel info        |           |              |         | RBS3-094 |
| - Number of downlink RLC logical channels  |           | 1            |         | RBS3-095 |
| - Downlink transport channel type          |           | DCH          |         | RBS3-096 |
| - DL DCH Transport channel identity        |           | 6            |         | RBS3-097 |
| - DL DSCH Transport channel identity       |           | Not Present  |         | RBS3-098 |
| - Logical channel identity                 |           | Not Present  |         | RBS3-099 |
| - RB identity                              |           | 11           |         | RBS3-100 |
| - PDCP info                                |           | Not Present  |         | RBS3-101 |
| - CHOICE RLC info type                     |           | RLC info     |         | RBS3-102 |
| - CHOICE Uplink RLC mode                   |           | TM RLC       |         | RBS3-103 |
| - Transmission RLC discard                 |           | Not Present  |         | RBS3-104 |
| - Segmentation indication                  |           | FALSE        |         | RBS3-105 |
| - CHOICE Downlink RLC mode                 |           | TM RLC       |         | RBS3-106 |
| - Segmentation indication                  |           | FALSE        |         | RBS3-107 |
| - RB mapping info                          |           |              |         | RBS3-108 |
| - Information for each multiplexing option |           |              |         | RBS3-109 |
| - RLC logical channel mapping indicator    |           | Not Present  |         | RBS3-110 |
| - Number of uplink RLC logical channels    |           | 1            |         | RBS3-111 |
| - Uplink transport channel type            |           | DCH          |         | RBS3-112 |
| - UL Transport channel identity            |           | 2            |         | RBS3-113 |
| - Logical channel identity                 |           | Not Present  |         | RBS3-114 |
| - CHOICE RLC size list                     |           | Configured   |         | RBS3-115 |
| - MAC logical channel priority             |           | 6            |         | RBS3-116 |
| - Downlink RLC logical channel info        |           |              |         | RBS3-117 |
| - Number of downlink RLC logical channels  |           | 1            |         | RBS3-118 |
| - Downlink transport channel type          |           | DCH          |         | RBS3-119 |
| - DL DCH Transport channel identity        |           | 7            |         | RBS3-120 |
| - DL DSCH Transport channel identity       |           | Not Present  |         | RBS3-121 |
| - Logical channel identity                 |           | Not Present  |         | RBS3-122 |
| - RB identity                              |           | 12           |         | RBS3-123 |
| - PDCP info                                |           | Not Present  |         | RBS3-124 |
| - CHOICE RLC info type                     |           | RLC info     |         | RBS3-125 |
| - CHOICE Uplink RLC mode                   |           | TM RLC       |         | RBS3-126 |
| - Transmission RLC discard                 |           | Not Present  |         | RBS3-127 |
| - Segmentation indication                  |           | FALSE        |         | RBS3-128 |
| - CHOICE Downlink RLC mode                 |           | TM RLC       |         | RBS3-129 |
| - Segmentation indication                  |           | FALSE        |         | RBS3-130 |
| - RB mapping info                          |           |              |         | RBS3-131 |
| - Information for each multiplexing option |           |              |         | RBS3-132 |
| - RLC logical channel mapping              |           | Not Present  |         | RBS3-133 |

| Information Element                       | Condition      | Value/remark                                                                                     | Version | Index    |
|-------------------------------------------|----------------|--------------------------------------------------------------------------------------------------|---------|----------|
| indicator                                 |                |                                                                                                  |         |          |
| - Number of uplink RLC logical channels   |                | 1                                                                                                |         | RBS3-134 |
| - Uplink transport channel type           |                | DCH                                                                                              |         | RBS3-135 |
| - UL Transport channel identity           |                | 3                                                                                                |         | RBS3-136 |
| - Logical channel identity                |                | Not Present                                                                                      |         | RBS3-137 |
| - CHOICE RLC size list                    |                | Configured                                                                                       |         | RBS3-138 |
| - MAC logical channel priority            |                | 6                                                                                                |         | RBS3-139 |
| - Downlink RLC logical channel            |                |                                                                                                  |         | RBS3-140 |
| info                                      |                |                                                                                                  |         |          |
| - Number of downlink RLC logical channels |                | 1                                                                                                |         | RBS3-141 |
| - Downlink transport channel type         |                | DCH                                                                                              |         | RBS3-142 |
| - DL DCH Transport channel identity       |                | 8                                                                                                |         | RBS3-143 |
| - DL DSCH Transport channel identity      |                | Not Present                                                                                      |         | RBS3-144 |
| - Logical channel identity                |                | Not Present                                                                                      |         | RBS3-145 |
| - RAB information for setup               | A3, A4, A5, A6 |                                                                                                  |         | RBS3-146 |
| - RAB info                                |                | (AM DTCH for PS domain)                                                                          |         | RBS3-147 |
| - RAB identity                            |                | 0000 0101B                                                                                       |         | RBS3-148 |
|                                           |                | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |          |
| - CN domain identity                      |                | PS domain                                                                                        |         | RBS3-149 |
| - NAS Synchronization Indicator           |                | Not Present                                                                                      |         | RBS3-150 |
| - Re-establishment timer                  |                | useT315                                                                                          |         | RBS3-151 |
| - RB information to setup                 |                |                                                                                                  |         | RBS3-152 |
| - RB identity                             |                | 20                                                                                               |         | RBS3-153 |
| - PDCP info                               |                |                                                                                                  |         | RBS3-154 |
| - Support for lossless SRNS               |                | FALSE                                                                                            |         | RBS3-155 |
| relocation                                |                |                                                                                                  |         |          |
| - Max PDCP SN window size                 |                | Not present                                                                                      |         | RBS3-156 |
| - PDCP PDU header                         |                | Absent                                                                                           |         | RBS3-157 |
| - Header compression                      |                | Not present                                                                                      |         | RBS3-158 |
| information                               |                |                                                                                                  |         |          |
| - CHOICE RLC info type                    |                | RLC info                                                                                         |         | RBS3-159 |
| - CHOICE Uplink RLC mode                  |                | AM RLC                                                                                           |         | RBS3-160 |
| - Transmission RLC discard                |                |                                                                                                  |         | RBS3-161 |
| - CHOICE SDU discard mode                 |                | No Discard                                                                                       |         | RBS3-162 |
| - MAX_DAT                                 |                | 15                                                                                               |         | RBS3-163 |
| - Transmission window size                |                | 128                                                                                              |         | RBS3-164 |
| - Timer_RST                               |                | 500                                                                                              |         | RBS3-165 |
| - Max_RST                                 |                | 4                                                                                                |         | RBS3-166 |
| - Polling info                            |                |                                                                                                  |         | RBS3-167 |
| - Timer_poll_prohibit                     |                | 200                                                                                              |         | RBS3-168 |
| - Timer_poll                              |                | 200                                                                                              |         | RBS3-169 |
| - Poll_PDU                                |                | Not Present                                                                                      |         | RBS3-170 |
| - Poll_SDU                                |                | 1                                                                                                |         | RBS3-171 |
| - Last transmission PDU poll              |                | TRUE                                                                                             |         | RBS3-172 |
| - Last retransmission PDU poll            |                | TRUE                                                                                             |         | RBS3-173 |
| - Poll_Windows                            |                | 99                                                                                               |         | RBS3-174 |
| - Timer_poll_periodic                     |                | Not Present                                                                                      |         | RBS3-175 |
| - CHOICE Downlink RLC mode                |                | AM RLC                                                                                           |         | RBS3-176 |
| - In-sequence delivery                    |                | TRUE                                                                                             |         | RBS3-177 |
| - Receiving window size                   |                | 128                                                                                              |         | RBS3-178 |
| - Downlink RLC status info                |                |                                                                                                  |         | RBS3-179 |
| - Timer_status_prohibit                   |                | 200                                                                                              |         | RBS3-180 |
| - Timer_EPC                               |                | Not Present                                                                                      |         | RBS3-181 |
| - Missing PDU indicator                   |                | TRUE                                                                                             |         | RBS3-182 |
| - Timer_STATUS_periodic                   |                | Not Present                                                                                      |         | RBS3-183 |
| - RB mapping info                         |                |                                                                                                  |         | RBS3-184 |
| - Information for each multiplexing       |                | 2 RBMuxOptions                                                                                   |         | RBS3-185 |
| option                                    |                |                                                                                                  |         |          |
| - RLC logical channel mapping             |                | Not Present                                                                                      |         | RBS3-186 |
| indicator                                 |                |                                                                                                  |         |          |

| Information Element                       | Condition | Value/remark                                                                                     | Version | Index    |
|-------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|----------|
| - Number of uplink RLC logical channels   |           | 1                                                                                                |         | RBS3-187 |
| - Uplink transport channel type           |           | DCH                                                                                              |         | RBS3-188 |
| - UL Transport channel identity           |           | 1                                                                                                |         | RBS3-189 |
| - Logical channel identity                |           | Not Present                                                                                      |         | RBS3-190 |
| - CHOICE RLC size list                    |           | Configured                                                                                       |         | RBS3-191 |
| - MAC logical channel priority            |           | 8                                                                                                |         | RBS3-192 |
| - Downlink RLC logical channel            |           |                                                                                                  |         | RBS3-193 |
| info                                      |           |                                                                                                  |         |          |
| - Number of downlink RLC logical channels |           | 1                                                                                                |         | RBS3-194 |
| - Downlink transport channel type         |           | DCH                                                                                              |         | RBS3-195 |
| - DL DCH Transport channel identity       |           | 6                                                                                                |         | RBS3-196 |
| - DL DSCH Transport channel identity      |           | Not Present                                                                                      |         | RBS3-197 |
| - Logical channel identity                |           | Not Present                                                                                      |         | RBS3-198 |
| - RLC logical channel mapping indicator   |           | Not Present                                                                                      |         | RBS3-199 |
| - Number of uplink RLC logical channels   |           | 1                                                                                                |         | RBS3-200 |
| - Uplink transport channel type           |           | RACH                                                                                             |         | RBS3-201 |
| - UL Transport channel identity           |           | Not Present                                                                                      |         | RBS3-202 |
| - Logical channel identity                |           | 7                                                                                                |         | RBS3-203 |
| - CHOICE RLC size list                    |           | Explicit list                                                                                    |         | RBS3-204 |
| - RLC size index                          |           | Reference to clause 6 Parameter Set                                                              |         | RBS3-205 |
| - MAC logical channel priority            |           | 8                                                                                                |         | RBS3-206 |
| - Downlink RLC logical channel            |           |                                                                                                  |         | RBS3-207 |
| info                                      |           |                                                                                                  |         |          |
| - Number of downlink RLC logical channels |           | 1                                                                                                |         | RBS3-208 |
| - Downlink transport channel type         |           | FACH                                                                                             |         | RBS3-209 |
| - DL DCH Transport channel identity       |           | Not Present                                                                                      |         | RBS3-210 |
| - DL DSCH Transport channel identity      |           | Not Present                                                                                      |         | RBS3-211 |
| - Logical channel identity                |           | 7                                                                                                |         | RBS3-212 |
| - RAB information for setup               | A9        |                                                                                                  | Rel-5   | RBS3-213 |
| - RAB info                                |           | (high-speed AM DTCH for PS domain)                                                               |         | RBS3-214 |
| - RAB identity                            |           | 0000 0101B                                                                                       |         | RBS3-215 |
|                                           |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |          |
| - CN domain identity                      |           | PS domain                                                                                        |         | RBS3-216 |
| - NAS Synchronization Indicator           |           | Not Present                                                                                      |         | RBS3-217 |
| - Re-establishment timer                  |           | useT315                                                                                          |         | RBS3-218 |
| - RB information to setup                 |           |                                                                                                  |         | RBS3-219 |
| - RB identity                             |           | 25                                                                                               |         | RBS3-220 |
| - PDCP info                               |           |                                                                                                  |         | RBS3-221 |
| - Support for lossless SRNS relocation    |           | FALSE                                                                                            |         | RBS3-222 |
| - Max PDCP SN window size                 |           | Not present                                                                                      |         | RBS3-223 |
| - PDCP PDU header                         |           | Absent                                                                                           |         | RBS3-224 |
| - Header compression                      |           | Not present                                                                                      |         | RBS3-225 |
| information                               |           |                                                                                                  |         |          |
| - CHOICE RLC info type                    |           | RLC info                                                                                         |         | RBS3-226 |
| - CHOICE Uplink RLC mode                  |           | AM RLC                                                                                           |         | RBS3-227 |
| - Transmission RLC discard                |           |                                                                                                  |         | RBS3-228 |
| - CHOICE SDU discard mode                 |           | No Discard                                                                                       |         | RBS3-229 |
| - MAX_DAT                                 |           | 15                                                                                               |         | RBS3-230 |
| - Transmission window size                |           | 128                                                                                              |         | RBS3-231 |
| - Timer_RST                               |           | 500                                                                                              |         | RBS3-232 |
| - Max_RST                                 |           | 4                                                                                                |         | RBS3-233 |
| - Polling info                            |           |                                                                                                  |         | RBS3-234 |
| - Timer_poll_prohibit                     |           | 100                                                                                              |         | RBS3-235 |

| Information Element                        | Condition | Value/remark                        | Version | Index    |
|--------------------------------------------|-----------|-------------------------------------|---------|----------|
| - Timer_poll                               |           | 100                                 |         | RBS3-236 |
| - Poll_PDU                                 |           | Not Present                         |         | RBS3-237 |
| - Poll_SDU                                 |           | 1                                   |         | RBS3-238 |
| - Last transmission PDU poll               |           | TRUE                                |         | RBS3-239 |
| - Last retransmission PDU poll             |           | TRUE                                |         | RBS3-240 |
| - Poll_Windows                             |           | 99                                  |         | RBS3-241 |
| - Timer_poll_periodic                      |           | Not Present                         |         | RBS3-242 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                              |         | RBS3-243 |
| - CHOICE Downlink RLC PDU                  |           | Reference to clause 6 Parameter Set |         | RBS3-244 |
| Size                                       |           |                                     |         |          |
| - In-sequence delivery                     |           | TRUE                                |         | RBS3-245 |
| - Receiving window size                    |           | 768                                 |         | RBS3-246 |
| - Downlink RLC status info                 |           |                                     |         | RBS3-247 |
| - Timer_status_prohibit                    |           | 100                                 |         | RBS3-248 |
| - Timer_EPC                                |           | Not Present                         |         | RBS3-249 |
| - Missing PDU indicator                    |           | TRUE                                |         | RBS3-250 |
| - Timer_STATUS_periodic                    |           | Not Present                         |         | RBS3-251 |
| - One sided RLC re-establishment           |           | FALSE                               |         | RBS3-252 |
| - RB mapping info                          |           |                                     |         | RBS3-253 |
| - Information for each multiplexing option |           | 3 RBMuxOptions                      |         | RBS3-254 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RBS3-255 |
| - Number of uplink RLC logical channels    |           | 1                                   |         | RBS3-256 |
| - Uplink transport channel type            |           | DCH                                 |         | RBS3-257 |
| - UL Transport channel identity            |           | 1                                   |         | RBS3-258 |
| - Logical channel identity                 |           | Not Present                         |         | RBS3-259 |
| - CHOICE RLC size list                     |           | Configured                          |         | RBS3-260 |
| - MAC logical channel priority             |           | 8                                   |         | RBS3-261 |
| - Downlink RLC logical channel info        |           |                                     |         | RBS3-262 |
| - Number of downlink RLC logical channels  |           | 1                                   |         | RBS3-263 |
| - Downlink transport channel type          |           | DCH                                 |         | RBS3-264 |
| - DL DCH Transport channel identity        |           | 6                                   |         | RBS3-265 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RBS3-266 |
| - DL HS-DSCH MAC-d flow identity           |           | Not Present                         |         | RBS3-267 |
| - Logical channel identity                 |           | Not Present                         |         | RBS3-268 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RBS3-269 |
| - Number of uplink RLC logical channels    |           | 1                                   |         | RBS3-270 |
| - Uplink transport channel type            |           | DCH                                 |         | RBS3-271 |
| - UL Transport channel identity            |           | 1                                   |         | RBS3-272 |
| - Logical channel identity                 |           | Not Present                         |         | RBS3-273 |
| - CHOICE RLC size list                     |           | Configured                          |         | RBS3-274 |
| - MAC logical channel priority             |           | 8                                   |         | RBS3-275 |
| - Downlink RLC logical channel info        |           |                                     |         | RBS3-276 |
| - Number of downlink RLC logical channels  |           | 1                                   |         | RBS3-277 |
| - Downlink transport channel type          |           | HS-DSCH                             |         | RBS3-278 |
| - DL DCH Transport channel identity        |           | Not Present                         |         | RBS3-279 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RBS3-280 |
| - DL HS-DSCH MAC-d flow identity           |           | 0                                   |         | RBS3-281 |
| - Logical channel identity                 |           | Not Present                         |         | RBS3-282 |
| - RLC logical channel mapping              |           | Not Present                         |         | RBS3-283 |

| Information Element                       | Condition | Value/remark                                                                                     | Version | Index    |
|-------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|----------|
| indicator                                 |           |                                                                                                  |         |          |
| - Number of uplink RLC logical channels   |           | 1                                                                                                |         | RBS3-284 |
| - Uplink transport channel type           |           | RACH                                                                                             |         | RBS3-285 |
| - UL Transport channel identity           |           | Not Present                                                                                      |         | RBS3-286 |
| - Logical channel identity                |           | 7                                                                                                |         | RBS3-287 |
| - CHOICE RLC size list                    |           | Explicit list                                                                                    |         | RBS3-288 |
| - RLC size index                          |           | Reference to clause 6 Parameter Set                                                              |         | RBS3-289 |
| - MAC logical channel priority            |           | 8                                                                                                |         | RBS3-290 |
| - Downlink RLC logical channel            |           |                                                                                                  |         | RBS3-291 |
| info                                      |           |                                                                                                  |         |          |
| - Number of downlink RLC logical channels |           | 1                                                                                                |         | RBS3-292 |
| - Downlink transport channel type         |           | FACH                                                                                             |         | RBS3-293 |
| - DL DCH Transport channel identity       |           | Not Present                                                                                      |         | RBS3-294 |
| - DL DSCH Transport channel identity      |           | Not Present                                                                                      |         | RBS3-295 |
| - Logical channel identity                |           | 7                                                                                                |         | RBS3-296 |
| - RAB information for setup               | A10       |                                                                                                  | Rel-5   | RBS3-297 |
| - RAB info                                |           | (high-speed AM DTCH for PS domain)                                                               |         | RBS3-298 |
| - RAB identity                            |           | 0000 0101B                                                                                       |         | RBS3-299 |
|                                           |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |          |
| - CN domain identity                      |           | PS domain                                                                                        |         | RBS3-300 |
| - NAS Synchronization Indicator           |           | Not Present                                                                                      |         | RBS3-301 |
| - Re-establishment timer                  |           | useT315                                                                                          |         | RBS3-302 |
| - RB information to setup                 |           |                                                                                                  |         | RBS3-303 |
| - RB identity                             |           | 25                                                                                               |         | RBS3-304 |
| - PDCP info                               |           |                                                                                                  |         | RBS3-305 |
| - Support for lossless SRNS relocation    |           | FALSE                                                                                            |         | RBS3-306 |
| - Max PDCP SN window size                 |           | Not present                                                                                      |         | RBS3-307 |
| - PDCP PDU header                         |           | Absent                                                                                           |         | RBS3-308 |
| - Header compression                      |           | Not present                                                                                      |         | RBS3-309 |
| information                               |           |                                                                                                  |         |          |
| - CHOICE RLC info type                    |           | RLC info                                                                                         |         | RBS3-310 |
| - CHOICE Uplink RLC mode                  |           | AM RLC                                                                                           |         | RBS3-311 |
| - Transmission RLC discard                |           |                                                                                                  |         | RBS3-312 |
| - CHOICE SDU discard mode                 |           | No Discard                                                                                       |         | RBS3-313 |
| - MAX_DAT                                 |           | 15                                                                                               |         | RBS3-314 |
| - Transmission window size                |           | 128                                                                                              |         | RBS3-315 |
| - Timer_RST                               |           | 500                                                                                              |         | RBS3-316 |
| - Max_RST                                 |           | 4                                                                                                |         | RBS3-317 |
| - Polling info                            |           |                                                                                                  |         | RBS3-318 |
| - Timer_poll_prohibit                     |           | 100                                                                                              |         | RBS3-319 |
| - Timer_poll                              |           | 100                                                                                              |         | RBS3-320 |
| - Poll_PDU                                |           | Not Present                                                                                      |         | RBS3-321 |
| - Poll_SDU                                |           | 1                                                                                                |         | RBS3-322 |
| - Last transmission PDU poll              |           | TRUE                                                                                             |         | RBS3-323 |
| - Last retransmission PDU poll            |           | TRUE                                                                                             |         | RBS3-324 |
| - Poll_Windows                            |           | 99                                                                                               |         | RBS3-325 |
| - Timer_poll_periodic                     |           | Not Present                                                                                      |         | RBS3-326 |
| - CHOICE Downlink RLC mode                |           | AM RLC                                                                                           |         | RBS3-327 |
| - CHOICE Downlink RLC PDU                 |           | Reference to clause 6 Parameter Set                                                              |         | RBS3-328 |
| Size                                      |           |                                                                                                  |         |          |
| - In-sequence delivery                    |           | TRUE                                                                                             |         | RBS3-329 |
| - Receiving window size                   |           | 768                                                                                              |         | RBS3-330 |
| - Downlink RLC status info                |           |                                                                                                  |         | RBS3-331 |
| - Timer_status_prohibit                   |           | 100                                                                                              |         | RBS3-332 |
| - Timer_EPC                               |           | Not Present                                                                                      |         | RBS3-333 |
| - Missing PDU indicator                   |           | TRUE                                                                                             |         | RBS3-334 |
| - Timer_STATUS_periodic                   |           | Not Present                                                                                      |         | RBS3-335 |
| - One sided RLC re-establishment          |           | FALSE                                                                                            |         | RBS3-336 |



| Information Element                        | Condition | Value/remark                                                                                     | Version | Index    |
|--------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|----------|
| - RB mapping info                          | A11       | 1 RBMuxOption                                                                                    |         | RBS3-337 |
| - Information for each multiplexing option |           |                                                                                                  |         | RBS3-338 |
| - RLC logical channel mapping indicator    |           | Not present                                                                                      |         | RBS3-339 |
| - Number of uplink RLC logical channels    |           | 1                                                                                                |         | RBS3-340 |
| - Uplink transport channel type            |           | DCH                                                                                              |         | RBS3-341 |
| - UL Transport channel identity            |           | 1                                                                                                |         | RBS3-342 |
| - Logical channel identity                 |           | Not Present                                                                                      |         | RBS3-343 |
| - CHOICE RLC size list                     |           | Configured                                                                                       |         | RBS3-344 |
| - MAC logical channel priority             |           | 8                                                                                                |         | RBS3-345 |
| - Downlink RLC logical channel info        |           |                                                                                                  |         | RBS3-346 |
| - Number of downlink RLC logical channels  |           | 1                                                                                                |         | RBS3-347 |
| - Downlink transport channel type          |           | HS-DSCH                                                                                          |         | RBS3-348 |
| - DL DCH Transport channel identity        |           | Not present                                                                                      |         | RBS3-349 |
| - DL DSCH Transport channel identity       |           | Not present                                                                                      |         | RBS3-350 |
| - DL HS-DSCH MAC-d flow identity           |           | 0                                                                                                |         | RBS3-351 |
| - Logical channel identity                 |           | Not Present                                                                                      |         | RBS3-352 |
| - RAB information for setup                |           |                                                                                                  |         | RBS3-353 |
| - RAB info                                 |           | (AM DTCH for PS domain)                                                                          |         | RBS3-354 |
| - RAB identity                             |           | 0000 0101B                                                                                       |         | RBS3-355 |
|                                            |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |          |
| - CN domain identity                       |           | PS domain                                                                                        |         | RBS3-356 |
| - NAS Synchronization Indicator            |           | Not Present                                                                                      |         | RBS3-357 |
| - Re-establishment timer                   |           | useT315                                                                                          |         | RBS3-358 |
| - RB information to setup                  |           |                                                                                                  |         | RBS3-359 |
| - RB identity                              |           | 20                                                                                               |         | RBS3-360 |
| - PDCP info                                |           |                                                                                                  |         | RBS3-361 |
| - Support for lossless SRNS relocation     |           | FALSE                                                                                            |         | RBS3-362 |
| - Max PDCP SN window size                  |           | Not present                                                                                      |         | RBS3-363 |
| - PDCP PDU header                          |           | Absent                                                                                           |         | RBS3-364 |
| - Header compression information           |           | Not present                                                                                      |         | RBS3-365 |
| - CHOICE RLC info type                     |           | RLC info                                                                                         |         | RBS3-366 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                                                                                           |         | RBS3-367 |
| - Transmission RLC discard                 |           |                                                                                                  |         | RBS3-368 |
| - CHOICE SDU discard mode                  |           | No Discard                                                                                       |         | RBS3-369 |
| - MAX_DAT                                  |           | 15                                                                                               |         | RBS3-370 |
| - Transmission window size                 |           | 128                                                                                              |         | RBS3-371 |
| - Timer_RST                                |           | 500                                                                                              |         | RBS3-372 |
| - Max_RST                                  |           | 4                                                                                                |         | RBS3-373 |
| - Polling info                             |           |                                                                                                  |         | RBS3-374 |
| - Timer_poll_prohibit                      |           | 200                                                                                              |         | RBS3-375 |
| - Timer_poll                               |           | 200                                                                                              |         | RBS3-376 |
| - Poll_PDU                                 |           | Not Present                                                                                      |         | RBS3-377 |
| - Poll_SDU                                 |           | 1                                                                                                |         | RBS3-378 |
| - Last transmission PDU poll               |           | TRUE                                                                                             |         | RBS3-379 |
| - Last retransmission PDU poll             |           | TRUE                                                                                             |         | RBS3-380 |
| - Poll_Windows                             |           | 99                                                                                               |         | RBS3-381 |
| - Timer_poll_periodic                      |           | Not Present                                                                                      |         | RBS3-382 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                                                                                           |         | RBS3-383 |
| - In-sequence delivery                     |           | TRUE                                                                                             |         | RBS3-384 |
| - Receiving window size                    |           | 128                                                                                              |         | RBS3-385 |
| - Downlink RLC status info                 |           |                                                                                                  |         | RBS3-386 |
| - Timer_status_prohibit                    |           | 200                                                                                              |         | RBS3-387 |
| - Timer_EPC                                |           | Not Present                                                                                      |         | RBS3-388 |
| - Missing PDU indicator                    |           | TRUE                                                                                             |         | RBS3-389 |

| Information Element                        | Condition | Value/remark   | Version | Index                                                                                            |          |
|--------------------------------------------|-----------|----------------|---------|--------------------------------------------------------------------------------------------------|----------|
| - Timer_STATUS_periodic                    | A12       | Not Present    | Rel-7   | RBS3-390                                                                                         |          |
| - RB mapping info                          |           |                |         | RBS3-391                                                                                         |          |
| - Information for each multiplexing option |           | 2 RBMuxOptions |         | RBS3-392                                                                                         |          |
| - RLC logical channel mapping indicator    |           | Not Present    |         | RBS3-393                                                                                         |          |
| - Number of uplink RLC logical channels    |           | 1              |         | RBS3-394                                                                                         |          |
| - Uplink transport channel type            |           | DCH            |         | RBS3-395                                                                                         |          |
| - UL Transport channel identity            |           | 4              |         | RBS3-396                                                                                         |          |
| - Logical channel identity                 |           | Not Present    |         | RBS3-397                                                                                         |          |
| - CHOICE RLC size list                     |           | Configured     |         | RBS3-398                                                                                         |          |
| - MAC logical channel priority             |           | 8              |         | RBS3-399                                                                                         |          |
| - Downlink RLC logical channel info        |           |                |         | RBS3-400                                                                                         |          |
| - Number of downlink RLC logical channels  |           | 1              |         | RBS3-401                                                                                         |          |
| - Downlink transport channel type          |           | DCH            |         | RBS3-402                                                                                         |          |
| - DL DCH Transport channel identity        |           | 9              |         | RBS3-403                                                                                         |          |
| - DL DSCH Transport channel identity       |           | Not Present    |         | RBS3-404                                                                                         |          |
| - Logical channel identity                 |           | Not Present    |         | RBS3-405                                                                                         |          |
| - RLC logical channel mapping indicator    |           | Not Present    |         | RBS3-406                                                                                         |          |
| - RAB information for setup                |           |                |         |                                                                                                  | RBS3-407 |
| - RAB info                                 |           |                |         | (high-speed AM DTCH for PS domain)                                                               | RBS3-408 |
| - RAB identity                             |           |                |         | 0000 0101B                                                                                       | RBS3-409 |
|                                            |           |                |         | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |          |
| - CN domain identity                       |           |                |         | PS domain                                                                                        | RBS3-410 |
| - NAS Synchronization Indicator            |           |                |         | Not Present                                                                                      | RBS3-411 |
| - Re-establishment timer                   |           |                |         | useT315                                                                                          | RBS3-412 |
| - RB information to setup                  |           |                |         |                                                                                                  | RBS3-413 |
| - RB identity                              |           |                |         | 25                                                                                               | RBS3-414 |
| - PDCP info                                |           |                |         |                                                                                                  | RBS3-415 |
| - Support for lossless SRNS relocation     |           |                |         | FALSE                                                                                            | RBS3-416 |
| - Max PDCP SN window size                  |           |                |         | Not present                                                                                      | RBS3-417 |
| - PDCP PDU header                          |           |                |         | Absent                                                                                           | RBS3-418 |
| - Header compression                       |           |                |         | Not present                                                                                      | RBS3-419 |
| - CHOICE RLC info type                     |           |                |         | RLC info                                                                                         | RBS3-420 |
| - CHOICE Uplink RLC mode                   |           |                |         | AM RLC                                                                                           | RBS3-421 |
| - Transmission RLC discard                 |           |                |         |                                                                                                  | RBS3-422 |
| - CHOICE SDU discard mode                  |           |                |         | No Discard                                                                                       | RBS3-423 |
| - MAX_DAT                                  |           |                |         | 15                                                                                               | RBS3-424 |
| - Transmission window size                 |           |                |         | 256                                                                                              | RBS3-425 |
| - Timer_RST                                |           |                |         | 500                                                                                              | RBS3-426 |
| - Max_RST                                  |           |                |         | 4                                                                                                | RBS3-427 |
| - Polling info                             |           |                |         |                                                                                                  | RBS3-428 |
| - Timer_poll_prohibit                      |           |                |         | 100                                                                                              | RBS3-429 |
| - Timer_poll                               |           |                |         | 100                                                                                              | RBS3-430 |
| - Poll_PDU                                 |           |                |         | Not Present                                                                                      | RBS3-431 |
| - Poll_SDU                                 |           |                |         | 1                                                                                                | RBS3-432 |
| - Last transmission PDU poll               |           |                |         | TRUE                                                                                             | RBS3-433 |
| - Last retransmission PDU poll             |           |                |         | TRUE                                                                                             | RBS3-434 |
| - Poll_Windows                             |           |                |         | 99                                                                                               | RBS3-435 |
| - Timer_poll_periodic                      |           |                |         | Not Present                                                                                      | RBS3-436 |
| - CHOICE Downlink RLC mode                 |           |                |         | AM RLC                                                                                           | RBS3-437 |
| - CHOICE Downlink RLC PDU Size             |           |                |         | Reference to clause 6 Parameter Set                                                              | RBS3-438 |
| - In-sequence delivery                     |           |                |         | TRUE                                                                                             | RBS3-439 |
| - Receiving window size                    |           |                |         | 768                                                                                              | RBS3-440 |
| - Downlink RLC status info                 |           |                |         |                                                                                                  | RBS3-441 |

| Information Element                        | Condition | Value/remark                        | Version | Index    |
|--------------------------------------------|-----------|-------------------------------------|---------|----------|
| - Timer_status_prohibit                    |           | 100                                 |         | RBS3-442 |
| - Timer_EPC                                |           | Not Present                         |         | RBS3-443 |
| - Missing PDU indicator                    |           | TRUE                                |         | RBS3-444 |
| - Timer_STATUS_periodic                    |           | Not Present                         |         | RBS3-445 |
| - One sided RLC re-establishment           |           | FALSE                               |         | RBS3-446 |
| - RB mapping info                          |           |                                     |         | RBS3-447 |
| - Information for each multiplexing option |           | 3 RBMuxOptions                      |         | RBS3-448 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RBS3-449 |
| - Number of uplink RLC logical channels    |           | 1                                   |         | RBS3-450 |
| - Uplink transport channel type            |           | DCH                                 |         | RBS3-451 |
| - UL Transport channel identity            |           | 1                                   |         | RBS3-452 |
| - Logical channel identity                 |           | Not Present                         |         | RBS3-453 |
| - CHOICE RLC size list                     |           | Configured                          |         | RBS3-454 |
| - MAC logical channel priority             |           | 8                                   |         | RBS3-455 |
| - Downlink RLC logical channel info        |           |                                     |         | RBS3-456 |
| - Number of downlink RLC logical channels  |           | 1                                   |         | RBS3-457 |
| - Downlink transport channel type          |           | DCH                                 |         | RBS3-458 |
| - DL DCH Transport channel identity        |           | 6                                   |         | RBS3-459 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RBS3-460 |
| - DL HS-DSCH MAC-d flow identity           |           | Not Present                         |         | RBS3-461 |
| - Logical channel identity                 |           | Not Present                         |         | RBS3-462 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RBS3-463 |
| - Number of uplink RLC logical channels    |           | 1                                   |         | RBS3-464 |
| - Uplink transport channel type            |           | E-DCH                               |         | RBS3-465 |
| - Logical channel identity                 |           | 7                                   |         | RBS3-466 |
| - E-DCH MAC-d flow identity                |           | 2                                   |         | RBS3-467 |
| - DDI                                      |           | 5                                   |         | RBS3-468 |
| - RLC PDU size list                        |           | 1 RLC PDU size                      |         | RBS3-469 |
| - RLC PDU size                             |           | 336 bits                            |         | RBS3-470 |
| - Include in scheduling info               |           | TRUE                                |         | RBS3-471 |
| - MAC logical channel priority             |           | 8                                   |         | RBS3-472 |
| - Downlink RLC logical channel info        |           |                                     |         | RBS3-473 |
| - Number of downlink RLC logical channels  |           | 1                                   |         | RBS3-474 |
| - Downlink transport channel type          |           | HS-DSCH                             |         | RBS3-475 |
| - DL DCH Transport channel identity        |           | Not Present                         |         | RBS3-476 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RBS3-477 |
| - DL HS-DSCH MAC-d flow identity           |           | 0                                   |         | RBS3-478 |
| - Logical channel identity                 |           | Not Present                         |         | RBS3-479 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RBS3-480 |
| - Number of uplink RLC logical channels    |           | 1                                   |         | RBS3-481 |
| - Uplink transport channel type            |           | RACH                                |         | RBS3-482 |
| - UL Transport channel identity            |           | Not Present                         |         | RBS3-483 |
| - Logical channel identity                 |           | 7                                   |         | RBS3-484 |
| - CHOICE RLC size list                     |           | Explicit list                       |         | RBS3-485 |
| - RLC size index                           |           | Reference to clause 6 Parameter Set |         | RBS3-486 |
| - MAC logical channel priority             |           | 8                                   |         | RBS3-487 |
| - Downlink RLC logical channel             |           |                                     |         | RBS3-488 |

| Information Element                       | Condition | Value/remark                                                                                     | Version | Index    |
|-------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|----------|
| info                                      | A13, A14  | 1                                                                                                | Rel-7   | RBS3-489 |
| - Number of downlink RLC logical channels |           | FACH                                                                                             |         | RBS3-490 |
| - Downlink transport channel type         |           | Not Present                                                                                      |         | RBS3-491 |
| - DL DCH Transport channel identity       |           | Not Present                                                                                      |         | RBS3-492 |
| - DL DSCH Transport channel identity      |           |                                                                                                  |         |          |
| - RAB information for setup               |           | (high-speed AM DTCH for PS domain)                                                               |         | RBS3-493 |
| - RAB info                                |           | 0000 0101B                                                                                       |         | RBS3-494 |
| - RAB identity                            |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS3-495 |
| - CN domain identity                      |           | PS domain                                                                                        |         | RBS3-496 |
| - NAS Synchronization Indicator           |           | Not Present                                                                                      |         | RBS3-497 |
| - Re-establishment timer                  |           | useT315                                                                                          |         | RBS3-498 |
| - RB information to setup                 |           |                                                                                                  |         | RBS3-499 |
| - RB identity                             |           | 25                                                                                               |         | RBS3-500 |
| - PDCP info                               |           |                                                                                                  |         | RBS3-501 |
| - Support for lossless SRNS               |           | FALSE                                                                                            |         | RBS3-502 |
| relocation                                |           |                                                                                                  |         |          |
| - Max PDCP SN window size                 |           | Not present                                                                                      |         | RBS3-503 |
| - PDCP PDU header                         |           | Absent                                                                                           |         | RBS3-504 |
| - Header compression                      |           | Not present                                                                                      |         | RBS3-505 |
| information                               |           |                                                                                                  |         |          |
| - CHOICE RLC info type                    |           | RLC info                                                                                         |         | RBS3-506 |
| - CHOICE Uplink RLC mode                  |           | AM RLC                                                                                           |         | RBS3-507 |
| - Transmission RLC discard                |           |                                                                                                  |         | RBS3-508 |
| - CHOICE SDU discard mode                 |           | No Discard                                                                                       |         | RBS3-509 |
| - MAX_DAT                                 |           | 15                                                                                               |         | RBS3-510 |
| - Transmission window size                |           | 256                                                                                              |         | RBS3-511 |
| - Timer_RST                               |           | 500                                                                                              |         | RBS3-512 |
| - Max_RST                                 |           | 4                                                                                                |         | RBS3-513 |
| - Polling info                            |           |                                                                                                  |         | RBS3-514 |
| - Timer_poll_prohibit                     |           | 100                                                                                              |         | RBS3-515 |
| - Timer_poll                              |           | 100                                                                                              |         | RBS3-516 |
| - Poll_PDU                                |           | Not Present                                                                                      |         | RBS3-517 |
| - Poll_SDU                                |           | 1                                                                                                |         | RBS3-518 |
| - Last transmission PDU poll              |           | TRUE                                                                                             |         | RBS3-519 |
| - Last retransmission PDU poll            |           | TRUE                                                                                             |         | RBS3-520 |
| - Poll_Windows                            |           | 99                                                                                               |         | RBS3-521 |
| - Timer_poll_periodic                     |           | Not Present                                                                                      |         | RBS3-522 |
| - CHOICE Downlink RLC mode                |           | AM RLC                                                                                           |         | RBS3-523 |
| - CHOICE Downlink RLC PDU                 |           | Reference to clause 6 Parameter Set                                                              |         | RBS3-524 |
| Size                                      |           |                                                                                                  |         |          |
| - In-sequence delivery                    |           | TRUE                                                                                             |         | RBS3-525 |
| - Receiving window size                   |           | 768                                                                                              |         | RBS3-526 |
| - Downlink RLC status info                |           |                                                                                                  |         | RBS3-527 |
| - Timer_status_prohibit                   |           | 100                                                                                              |         | RBS3-528 |
| - Timer_EPC                               |           | Not Present                                                                                      |         | RBS3-529 |
| - Missing PDU indicator                   |           | TRUE                                                                                             |         | RBS3-530 |
| - Timer_STATUS_periodic                   |           | Not Present                                                                                      |         | RBS3-531 |
| - One sided RLC re-                       |           | FALSE                                                                                            |         | RBS3-532 |
| establishment                             |           |                                                                                                  |         |          |
| - RB mapping info                         |           |                                                                                                  |         | RBS3-533 |
| - Information for each multiplexing       |           | 1 RBMuxOption                                                                                    |         | RBS3-534 |
| option                                    |           |                                                                                                  |         |          |
| - RLC logical channel mapping             |           | Not Present                                                                                      |         | RBS3-535 |
| indicator                                 |           |                                                                                                  |         |          |
| - Number of uplink RLC logical            |           | 1                                                                                                |         | RBS3-536 |
| channels                                  |           |                                                                                                  |         |          |
| - Uplink transport channel type           |           | E-DCH                                                                                            |         | RBS3-537 |
| - Logical channel identity                |           | 7                                                                                                |         | RBS3-538 |
| - E-DCH MAC-d flow identity               |           | 2                                                                                                |         | RBS3-539 |
| - DDI                                     |           | 5                                                                                                |         | RBS3-540 |

| Information Element                    | Condition | Value/remark                                                                                     | Version | Index    |
|----------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|----------|
| info                                   |           | 1 RLC PDU size                                                                                   |         | RBS3-541 |
|                                        |           | 336 bits                                                                                         |         | RBS3-542 |
| logical channels                       |           | TRUE                                                                                             |         | RBS3-543 |
|                                        |           | 8                                                                                                |         | RBS3-544 |
| type                                   |           |                                                                                                  |         | RBS3-545 |
|                                        |           | 1                                                                                                |         | RBS3-546 |
| identity                               |           | HS-DSCH                                                                                          |         | RBS3-547 |
|                                        |           | Not present                                                                                      |         | RBS3-548 |
| identity                               |           | Not present                                                                                      |         | RBS3-549 |
|                                        |           | 0                                                                                                |         | RBS3-550 |
| identity                               |           | Not Present                                                                                      |         | RBS3-551 |
|                                        |           | (second high-speed AM DTCH for PS domain)                                                        |         | RBS3-552 |
| - RAB information for setup            | A15       | 0000 0110B                                                                                       | Rel-7   | RBS3-553 |
|                                        |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS3-554 |
| - RAB identity                         |           | PS domain                                                                                        |         | RBS3-555 |
|                                        |           | Not Present                                                                                      |         | RBS3-556 |
| - CN domain identity                   |           | useT315                                                                                          |         | RBS3-557 |
|                                        |           | 17                                                                                               |         | RBS3-558 |
| - NAS Synchronization Indicator        |           | FALSE                                                                                            |         | RBS3-559 |
|                                        |           |                                                                                                  |         | RBS3-560 |
| - Re-establishment timer               |           |                                                                                                  |         | RBS3-561 |
|                                        |           |                                                                                                  |         |          |
| - RB information to setup              |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - RB identity                          |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - PDCP info                            |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Support for lossless SRNS relocation |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Max PDCP SN window size              |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - PDCP PDU header                      |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Header compression                   |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| information                            |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - CHOICE RLC info type                 |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - CHOICE Uplink RLC mode               |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Transmission RLC discard             |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - CHOICE SDU discard mode              |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - MAX_DAT                              |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Transmission window size             |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Timer_RST                            |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Max_RST                              |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Polling info                         |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Timer_poll_prohibit                  |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Timer_poll                           |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Poll_PDU                             |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Poll_SDU                             |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Last transmission PDU poll           |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Last retransmission PDU poll         |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Poll_Windows                         |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Timer_poll_periodic                  |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - CHOICE Downlink RLC mode             |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - CHOICE Downlink RLC PDU              |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| Size                                   |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - In-sequence delivery                 |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Receiving window size                |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Downlink RLC status info             |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Timer_status_prohibit                |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Timer_EPC                            |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Missing PDU indicator                |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Timer_STATUS_periodic                |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - One sided RLC re-establishment       |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - RB mapping info                      |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |
| - Information for each multiplexing    |           |                                                                                                  |         |          |
|                                        |           |                                                                                                  |         |          |

| Information Element                        | Condition | Value/remark                                                                                     | Version | Index    |
|--------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|----------|
| option                                     | A16       | Not Present                                                                                      | Rel-6   | RBS3-594 |
| - RLC logical channel mapping indicator    |           | 1                                                                                                |         | RBS3-595 |
| - Number of uplink RLC logical channels    |           | E-DCH                                                                                            |         | RBS3-596 |
| - Uplink transport channel type            |           | 8                                                                                                |         | RBS3-597 |
| - Logical channel identity                 |           | 3                                                                                                |         | RBS3-598 |
| - E-DCH MAC-d flow identity                |           | 6                                                                                                |         | RBS3-599 |
| - DDI                                      |           | 1 RLC PDU size                                                                                   |         | RBS3-600 |
| - RLC PDU size list                        |           | 336 bits                                                                                         |         | RBS3-601 |
| - RLC PDU size                             |           | TRUE                                                                                             |         | RBS3-602 |
| - Include in scheduling info               |           | 8                                                                                                |         | RBS3-603 |
| - MAC logical channel priority             |           |                                                                                                  |         | RBS3-604 |
| - Downlink RLC logical channel info        |           | 1                                                                                                |         | RBS3-605 |
| - Number of downlink RLC logical channels  |           | HS-DSCH                                                                                          |         | RBS3-606 |
| - Downlink transport channel type          |           | Not present                                                                                      |         | RBS3-607 |
| - DL DCH Transport channel identity        |           | Not present                                                                                      |         | RBS3-608 |
| - DL DSCH Transport channel identity       |           | 2                                                                                                |         | RBS3-609 |
| - DL HS-DSCH MAC-d flow identity           |           | Not Present                                                                                      |         | RBS3-610 |
| - Logical channel identity                 |           | (Conversational UM DTCH for PS domain)                                                           |         | RBS3-611 |
| - RAB information for setup                |           | 0000 0110B                                                                                       |         | RBS3-612 |
| - RAB info                                 |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS3-613 |
| - RAB identity                             |           | PS domain                                                                                        |         | RBS3-614 |
| - CN domain identity                       |           | Not Present                                                                                      |         | RBS3-615 |
| - NAS Synchronization Indicator            |           | useT314                                                                                          |         | RBS3-616 |
| - Re-establishment timer                   |           | 27                                                                                               |         | RBS3-617 |
| - RB information to setup                  |           | FALSE                                                                                            |         | RBS3-618 |
| - RB identity                              |           |                                                                                                  |         | RBS3-619 |
| - PDCP info                                |           |                                                                                                  |         | RBS3-620 |
| - Support for lossless SRNS relocation     |           | Not present                                                                                      |         | RBS3-621 |
| - Max PDCP SN window size                  |           | Absent                                                                                           |         | RBS3-622 |
| - PDCP PDU header                          |           | Not present                                                                                      |         | RBS3-623 |
| - Header compression                       |           | RLC info                                                                                         |         | RBS3-624 |
| information                                |           | UM RLC                                                                                           |         | RBS3-625 |
| - CHOICE RLC info type                     |           | Not present                                                                                      |         | RBS3-626 |
| - CHOICE Uplink RLC mode                   |           | UM RLC                                                                                           |         | RBS3-627 |
| - Transmission RLC discard                 |           | 7                                                                                                |         | RBS3-628 |
| - CHOICE Downlink RLC mode                 |           | 32                                                                                               |         | RBS3-629 |
| - DL UM RLC LI size                        |           | FALSE                                                                                            |         | RBS3-630 |
| - DL Reception Window Size                 |           | Not present                                                                                      |         | RBS3-631 |
| - One sided RLC re-establishment           |           | Not present                                                                                      |         | RBS3-632 |
| - Alternative E-bit interpretation         |           | 1 RBMUXOption                                                                                    |         | RBS3-633 |
| - RB mapping info                          |           |                                                                                                  |         |          |
| - Information for each multiplexing option |           | Not Present                                                                                      |         | RBS3-634 |
| - RLC logical channel mapping indicator    |           | 1                                                                                                |         | RBS3-635 |
| - Number of uplink RLC logical channels    |           | E-DCH                                                                                            |         | RBS3-636 |
| - Uplink transport channel type            |           | 9                                                                                                |         | RBS3-637 |
| - Logical channel identity                 |           | 4                                                                                                |         | RBS3-638 |
| - E-DCH MAC-d flow identity                |           | 7                                                                                                |         | RBS3-639 |
| - DDI                                      |           | 12 RLC PDU sizes                                                                                 |         | RBS3-640 |
| - RLC PDU size list                        |           | 96 bits                                                                                          |         | RBS3-641 |
| - RLC PDU size                             |           |                                                                                                  |         |          |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Condition                                                   | Value/remark        | Version                 | Index    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------|-------------------------|----------|
| <div><div><div>- RLC PDU size</div><div>- RLC PDU size</div><div>- RLC PDU size</div><div>- RLC PDU size</div><div>- RLC PDU size</div><div>- RLC PDU size</div><div>- RLC PDU size</div><div>- RLC PDU size</div><div>- RLC PDU size</div><div>- RLC PDU size</div><div>- RLC PDU size</div><div>- RLC PDU size</div><div>- RLC PDU size</div><div>- Include in scheduling info</div><div>- MAC logical channel priority</div><div>- Downlink RLC logical channel info</div></div><div><div>- Number of downlink RLC logical channels</div><div>- Downlink transport channel type</div><div>- DL DCH Transport channel identity</div><div>- DL DSCH Transport channel identity</div><div>- DL HS-DSCH MAC-d flow identity</div><div>- Logical channel identity</div></div><div>RB information to reconfigure list</div></div>                                                                                                                     |                                                             | 112 bits            |                         | RBS3-642 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 144 bits            |                         | RBS3-643 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 160 bits            |                         | RBS3-644 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 176 bits            |                         | RBS3-645 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 192 bits            |                         | RBS3-646 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 208 bits            |                         | RBS3-647 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 224 bits            |                         | RBS3-648 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 288 bits            |                         | RBS3-649 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 296 bits            |                         | RBS3-650 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 312 bits            |                         | RBS3-651 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 336 bits            |                         | RBS3-652 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | TRUE                |                         | RBS3-653 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 8                   |                         | RBS3-654 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             |                     |                         | RBS3-655 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | HS-DSCH             |                         | RBS3-657 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | Not present         |                         | RBS3-658 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | Not present         |                         | RBS3-659 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 3                   |                         | RBS3-660 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Not Present                                                 | RBS3-661            |                         |          |
| Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RBS3-662                                                    |                     |                         |          |
| A1, A2, A3, A4, A5, A6, A7, A8 A9, A10 A12, A13, A14, A15, A16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                             | Rel-5<br>Rel-7      | RBS3-663<br>RBS3-664    |          |
| RB information to be affected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A1, A2, A3, A4, A5, A6, A7, A8, A11 , A9, A10, A12 A13, A15 | Not Present         | Rel-5<br>Rel-7<br>Rel-7 | RBS3-665 |
| <div><div>RB information to be affected</div><div><div>- RB identity</div><div>- RB mapping info</div><div>- Information for each multiplexing option</div><div>- RLC logical channel mapping indicator</div><div>- Number of uplink RLC logical channels</div><div>- Uplink transport channel type</div><div>- Logical channel identity</div><div>- E-DCH MAC-d flow identity</div><div>- DDI</div><div>- RLC PDU size list</div><div>- RLC PDU size</div><div>- Include in scheduling info</div><div>- MAC logical channel priority</div><div>- Downlink RLC logical channel info</div></div><div><div>- Number of RLC logical channels</div><div>- Downlink transport channel type</div><div>- DL DCH Transport channel identity</div><div>- DL DSCH Transport channel identity</div><div>- Logical channel identity</div><div>- RB identity</div><div>- RB mapping info</div><div>- Information for each multiplexing option</div></div></div> |                                                             |                     |                         | RBS3-666 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             |                     |                         | RBS3-667 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 1 (UM DCCH for RRC) |                         | RBS3-668 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 1 RBMuxOption       |                         | RBS3-669 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 1 RLC PDU size      |                         | RBS3-678 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 144 bits            |                         | RBS3-679 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | FALSE               |                         | RBS3-680 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 1                   |                         | RBS3-681 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             |                     |                         | RBS3-682 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 1                   |                         | RBS3-683 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | DCH                 |                         | RBS3-684 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | 10                  | RBS3-685                |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Not Present                                                 | RBS3-686            |                         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                           | RBS3-687            |                         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2 (AM DCCH for RRC)                                         | RBS3-688            |                         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             | RBS3-689            |                         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 RBMuxOption                                               | RBS3-690            |                         |          |

| Information Element                        | Condition | Value/remark                      | Version | Index    |
|--------------------------------------------|-----------|-----------------------------------|---------|----------|
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBS3-691 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBS3-692 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBS3-693 |
| - Logical channel identity                 |           | 2                                 |         | RBS3-694 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBS3-695 |
| - DDI                                      |           | 2                                 |         | RBS3-696 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBS3-697 |
| - RLC PDU size                             |           | 144 bits                          |         | RBS3-698 |
| - Include in scheduling info               |           | FALSE                             |         | RBS3-699 |
| - MAC logical channel priority             |           | 2                                 |         | RBS3-700 |
| - Downlink RLC logical channel info        |           |                                   |         | RBS3-701 |
| - Number of RLC logical channels           |           | 1                                 |         | RBS3-702 |
| - Downlink transport channel type          |           | DCH                               |         | RBS3-703 |
| - DL DCH Transport channel identity        |           | 10                                |         | RBS3-704 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBS3-705 |
| - Logical channel identity                 |           | 2                                 |         | RBS3-706 |
| - RB identity                              |           | 3 (AM DCCH for NAS High Priority) |         | RBS3-707 |
| - RB mapping info                          |           |                                   |         | RBS3-708 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBS3-709 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBS3-710 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBS3-711 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBS3-712 |
| - Logical channel identity                 |           | 3                                 |         | RBS3-713 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBS3-714 |
| - DDI                                      |           | 3                                 |         | RBS3-715 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBS3-716 |
| - RLC PDU size                             |           | 144 bits                          |         | RBS3-717 |
| - Include in scheduling info               |           | FALSE                             |         | RBS3-718 |
| - MAC logical channel priority             |           | 3                                 |         | RBS3-719 |
| - Downlink RLC logical channel info        |           |                                   |         | RBS3-720 |
| - Number of RLC logical channels           |           | 1                                 |         | RBS3-721 |
| - Downlink transport channel type          |           | DCH                               |         | RBS3-722 |
| - DL DCH Transport channel identity        |           | 10                                |         | RBS3-723 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBS3-724 |
| - Logical channel identity                 |           | 3                                 |         | RBS3-725 |
| - RB identity                              |           | 4 (AM DCCH for NAS Low Priority)  |         | RBS3-726 |
| - RB mapping info                          |           |                                   |         | RBS3-727 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBS3-728 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBS3-729 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBS3-730 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBS3-731 |
| - Logical channel identity                 |           | 4                                 |         | RBS3-732 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBS3-733 |
| - DDI                                      |           | 4                                 |         | RBS3-734 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBS3-735 |
| - RLC PDU size                             |           | 144 bits                          |         | RBS3-736 |
| - Include in scheduling info               |           | FALSE                             |         | RBS3-737 |
| - MAC logical channel priority             |           | 4                                 |         | RBS3-738 |



| Information Element                        | Condition | Value/remark        | Version | Index    |
|--------------------------------------------|-----------|---------------------|---------|----------|
| - Downlink RLC logical channel info        | A14, A16  |                     | Rel-7   | RBS3-739 |
| - Number of RLC logical channels           |           | 1                   |         | RBS3-740 |
| - Downlink transport channel type          |           | DCH                 |         | RBS3-741 |
| - DL DCH Transport channel identity        |           | 10                  |         | RBS3-742 |
| - DL DSCH Transport channel identity       |           | Not Present         |         | RBS3-743 |
| - Logical channel identity                 |           | 4                   |         | RBS3-744 |
| RB information to be affected              |           |                     |         | RBS3-745 |
| - RB identity                              |           | 1 (UM DCCH for RRC) |         | RBS3-746 |
| - RB mapping info                          |           |                     |         | RBS3-747 |
| - Information for each multiplexing option |           | 1 RBMuxOption       |         | RBS3-748 |
| - RLC logical channel mapping indicator    |           | Not Present         |         | RBS3-749 |
| - Number of uplink RLC logical channels    |           | 1                   |         | RBS3-750 |
| - Uplink transport channel type            |           | E-DCH               |         | RBS3-751 |
| - Logical channel identity                 |           | 1                   |         | RBS3-752 |
| - E-DCH MAC-d flow identity                |           | 1                   |         | RBS3-753 |
| - DDI                                      |           | 1                   |         | RBS3-754 |
| - RLC PDU size list                        |           | 1 RLC PDU size      |         | RBS3-755 |
| - RLC PDU size                             |           | 144 bits            |         | RBS3-756 |
| - Include in scheduling info               |           | FALSE               |         | RBS3-757 |
| - MAC logical channel priority             |           | 1                   |         | RBS3-758 |
| - Downlink RLC logical channel info        |           |                     |         | RBS3-759 |
| - Number of RLC logical channels           |           | 1                   |         | RBS3-760 |
| - Downlink transport channel type          |           | HS-DSCH             |         | RBS3-761 |
| - DL DCH Transport channel identity        |           | Not present         |         | RBS3-762 |
| - DL DSCH Transport channel identity       |           | Not present         |         | RBS3-763 |
| - DL HS-DSCH MAC-d flow identity           |           | 1                   |         | RBS3-764 |
| - Logical channel identity                 |           | 1                   |         | RBS3-765 |
| - RB identity                              |           | 2 (AM DCCH for RRC) |         | RBS3-766 |
| - RB mapping info                          |           |                     |         | RBS3-767 |
| - Information for each multiplexing option |           | 1 RBMuxOption       |         | RBS3-768 |
| - RLC logical channel mapping indicator    |           | Not Present         |         | RBS3-769 |
| - Number of uplink RLC logical channels    |           | 1                   |         | RBS3-770 |
| - Uplink transport channel type            |           | E-DCH               |         | RBS3-771 |
| - Logical channel identity                 |           | 2                   |         | RBS3-772 |
| - E-DCH MAC-d flow identity                |           | 1                   |         | RBS3-773 |
| - DDI                                      |           | 2                   |         | RBS3-774 |
| - RLC PDU size list                        |           | 1 RLC PDU size      |         | RBS3-775 |
| - RLC PDU size                             |           | 144 bits            |         | RBS3-776 |
| - Include in scheduling info               |           | FALSE               |         | RBS3-777 |
| - MAC logical channel priority             |           | 2                   |         | RBS3-778 |
| - Downlink RLC logical channel info        |           |                     |         | RBS3-779 |
| - Number of RLC logical channels           |           | 1                   |         | RBS3-780 |
| - Downlink transport channel type          |           | HS-DSCH             |         | RBS3-781 |
| - DL DCH Transport channel identity        |           | Not Present         |         | RBS3-782 |
| - DL DSCH Transport channel identity       |           | Not Present         |         | RBS3-783 |

| Information Element                        | Condition                                    | Value/remark                      | Version | Index    |
|--------------------------------------------|----------------------------------------------|-----------------------------------|---------|----------|
| - DL HS-DSCH MAC-d flow identity           |                                              | 1                                 |         | RBS3-784 |
| - Logical channel identity                 |                                              | 2                                 |         | RBS3-785 |
| - RB identity                              |                                              | 3 (AM DCCH for NAS High Priority) |         | RBS3-786 |
| - RB mapping info                          |                                              |                                   |         | RBS3-787 |
| - Information for each multiplexing option |                                              | 1 RBMuxOption                     |         | RBS3-788 |
| - RLC logical channel mapping indicator    |                                              | Not Present                       |         | RBS3-789 |
| - Number of uplink RLC logical channels    |                                              | 1                                 |         | RBS3-790 |
| - Uplink transport channel type            |                                              | E-DCH                             |         | RBS3-791 |
| - Logical channel identity                 |                                              | 3                                 |         | RBS3-792 |
| - E-DCH MAC-d flow identity                |                                              | 1                                 |         | RBS3-793 |
| - DDI                                      |                                              | 3                                 |         | RBS3-794 |
| - RLC PDU size list                        |                                              | 1 RLC PDU size                    |         | RBS3-795 |
| - RLC PDU size                             |                                              | 144 bits                          |         | RBS3-796 |
| - Include in scheduling info               |                                              | FALSE                             |         | RBS3-797 |
| - MAC logical channel priority             |                                              | 3                                 |         | RBS3-798 |
| - Downlink RLC logical channel info        |                                              |                                   |         | RBS3-799 |
| - Number of RLC logical channels           |                                              | 1                                 |         | RBS3-800 |
| - Downlink transport channel type          |                                              | HS-DSCH                           |         | RBS3-801 |
| - DL DCH Transport channel identity        |                                              | Not Present                       |         | RBS3-802 |
| - DL DSCH Transport channel identity       |                                              | Not Present                       |         | RBS3-803 |
| - DL HS-DSCH MAC-d flow identity           |                                              | 1                                 |         | RBS3-804 |
| - Logical channel identity                 |                                              | 3                                 |         | RBS3-805 |
| - RB identity                              |                                              | 4 (AM DCCH for NAS Low Priority)  |         | RBS3-806 |
| - RB mapping info                          |                                              |                                   |         | RBS3-807 |
| - Information for each multiplexing option |                                              | 1 RBMuxOption                     |         | RBS3-808 |
| - RLC logical channel mapping indicator    |                                              | Not Present                       |         | RBS3-809 |
| - Number of uplink RLC logical channels    |                                              | 1                                 |         | RBS3-810 |
| - Uplink transport channel type            |                                              | E-DCH                             |         | RBS3-811 |
| - Logical channel identity                 |                                              | 4                                 |         | RBS3-812 |
| - E-DCH MAC-d flow identity                |                                              | 1                                 |         | RBS3-813 |
| - DDI                                      |                                              | 4                                 |         | RBS3-814 |
| - RLC PDU size list                        |                                              | 1 RLC PDU size                    |         | RBS3-815 |
| - RLC PDU size                             |                                              | 144 bits                          |         | RBS3-816 |
| - Include in scheduling info               |                                              | FALSE                             |         | RBS3-817 |
| - MAC logical channel priority             |                                              | 4                                 |         | RBS3-818 |
| - Downlink RLC logical channel info        |                                              |                                   |         | RBS3-819 |
| - Number of RLC logical channels           |                                              | 1                                 |         | RBS3-820 |
| - Downlink transport channel type          |                                              | HS-DSCH                           |         | RBS3-821 |
| - DL DCH Transport channel identity        |                                              | Not Present                       |         | RBS3-822 |
| - DL DSCH Transport channel identity       |                                              | Not Present                       |         | RBS3-823 |
| - DL HS-DSCH MAC-d flow identity           |                                              | 1                                 |         | RBS3-824 |
| - Logical channel identity                 |                                              | 4                                 |         | RBS3-825 |
| Downlink counter synchronization info      | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | Not Present                       |         | RBS3-826 |
|                                            | A12, A13, A14, A15                           |                                   | Rel-5   | RBS3-827 |
| PDCCP ROHC target mode                     | A9, A10                                      | Not Present                       | Rel-7   | RBS3-828 |
|                                            | A12, A13, A14, A15                           |                                   | Rel-5   | RBS3-829 |
|                                            |                                              |                                   | Rel-7   | RBS3-830 |

| Information Element                                                | Condition                                    | Value/remark                                                                                             | Version            | Index    |
|--------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------|----------|
| UL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 |                                                                                                          | Rel-5              | RBS3-831 |
| - PRACH TFCS                                                       |                                              | Not Present                                                                                              |                    | RBS3-832 |
| - CHOICE mode                                                      |                                              | TDD                                                                                                      |                    | RBS3-833 |
| - Individual UL CCTrCH information                                 |                                              |                                                                                                          |                    | RBS3-834 |
| - UL TFCS Identity                                                 |                                              |                                                                                                          |                    | RBS3-835 |
| - TFCS ID                                                          |                                              | 1                                                                                                        |                    | RBS3-836 |
| - Shared Channel Indicator                                         |                                              | FALSE                                                                                                    |                    | RBS3-837 |
| - UL TFCS                                                          |                                              |                                                                                                          |                    | RBS3-838 |
| - CHOICE TFCI signalling                                           |                                              | Normal                                                                                                   |                    | RBS3-839 |
| - TFCI Field 1 information                                         |                                              |                                                                                                          | R99 and Rel-4 only | RBS3-840 |
| - CHOICE TFCS representation                                       |                                              | Complete reconfiguration                                                                                 |                    | RBS3-841 |
| - TFCS complete reconfigure information                            |                                              |                                                                                                          |                    | RBS3-842 |
| - CHOICE CTFC Size                                                 |                                              | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.3.4 Parameter Set. |                    | RBS3-843 |
| - CTFC information                                                 |                                              | This IE is repeated for TFC numbers and reference to clause 6.10.3.4 Parameter Set                       |                    | RBS3-844 |
| - CTFC                                                             |                                              | Reference to clause 6.10.3.4 Parameter Set                                                               |                    | RBS3-845 |
| - Power offset information                                         |                                              |                                                                                                          |                    | RBS3-846 |
| - CHOICE Gain Factors                                              |                                              | Computed Gain Factors(The last TFC is set to Signalled Gain Factors)                                     |                    | RBS3-847 |
| - Reference TFC ID                                                 |                                              | 0 Integer(0.. 3)                                                                                         |                    | RBS3-848 |
| - CHOICE mode                                                      |                                              | TDD                                                                                                      |                    | RBS3-849 |
| - CHOICE Gain Factors                                              |                                              | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)            |                    | RBS3-850 |
| - CHOICE mode                                                      |                                              | TDD                                                                                                      |                    | RBS3-851 |
| - Gain factor $\beta_d$                                            |                                              | 8                                                                                                        |                    | RBS3-852 |
| - Reference TFC ID                                                 |                                              | (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)                                 |                    | RBS3-853 |
| - CHOICE mode                                                      |                                              | 0                                                                                                        |                    | RBS3-854 |
| - TFC subset                                                       |                                              | TDD                                                                                                      |                    | RBS3-855 |
| - TFC subset list                                                  |                                              | Not Present                                                                                              |                    | RBS3-856 |
|                                                                    |                                              | Not Present                                                                                              |                    | RBS3-857 |
| UL Transport channel information for all transport channels        | A12                                          |                                                                                                          | Rel-7              | RBS3-858 |
| - PRACH TFCS                                                       |                                              | Not Present                                                                                              |                    | RBS3-859 |
| - CHOICE mode                                                      |                                              | TDD                                                                                                      |                    | RBS3-860 |
| - Individual UL CCTrCH information                                 |                                              |                                                                                                          |                    | RBS3-861 |
| - UL TFCS Identity                                                 |                                              |                                                                                                          |                    | RBS3-862 |
| - TFCS ID                                                          |                                              | 1                                                                                                        |                    | RBS3-863 |
| - Shared Channel Indicator                                         |                                              | FALSE                                                                                                    |                    | RBS3-864 |
| - UL TFCS                                                          |                                              |                                                                                                          |                    | RBS3-865 |
| - CHOICE TFCI signalling                                           |                                              | Normal                                                                                                   |                    | RBS3-866 |
| - TFCI Field 1 information                                         |                                              |                                                                                                          |                    | RBS3-867 |
| - CHOICE TFCS representation                                       |                                              | Complete reconfiguration                                                                                 |                    | RBS3-868 |
| - TFCS complete reconfigure information                            |                                              |                                                                                                          |                    | RBS3-869 |
| - CHOICE CTFC Size                                                 |                                              | ctfc2bit                                                                                                 |                    | RBS3-870 |
| - CTFC information                                                 |                                              |                                                                                                          |                    | RBS3-871 |
| - CTFC                                                             |                                              | 0<br>((UL DCH RAB, DCCH)=(TF0, TF0))                                                                     |                    | RBS3-872 |
| - Power offset information                                         |                                              |                                                                                                          |                    | RBS3-873 |
| - CHOICE Gain Factors                                              |                                              | Computed Gain Factors                                                                                    |                    | RBS3-874 |
| - CTFC                                                             |                                              | 1<br>((UL DCH RAB, DCCH)=(TF0, TF1))                                                                     |                    | RBS3-875 |
| - Power offset information                                         |                                              |                                                                                                          |                    | RBS3-876 |

| Information Element                                         | Condition                                         | Value/remark                                                                           | Version | Index    |
|-------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------|---------|----------|
| - CHOICE Gain Factors                                       |                                                   | Signalled Gain Factors                                                                 |         | RBS3-877 |
| - CHOICE mode                                               |                                                   | TDD                                                                                    |         | RBS3-878 |
| - Gain factor $\beta_d$                                     |                                                   | 8                                                                                      |         | RBS3-879 |
| - Reference TFC ID                                          |                                                   | 0                                                                                      |         | RBS3-880 |
| - CHOICE mode                                               |                                                   | TDD                                                                                    |         | RBS3-881 |
| - TFC subset                                                |                                                   | Not Present                                                                            |         | RBS3-882 |
| - TFC subset list                                           |                                                   | Not Present                                                                            |         | RBS3-883 |
| UL Transport channel information for all transport channels | A13, A14, A15, A16                                | Not Present                                                                            | Rel-7   | RBS3-884 |
| Deleted UL TrCH information                                 | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10, A12 | Not Present                                                                            | Rel-5   | RBS3-885 |
| Deleted UL TrCH information                                 | A13, A14, A15, A16                                |                                                                                        | Rel-7   | RBS3-886 |
| - Uplink transport channel type                             | DCH                                               |                                                                                        | Rel-7   | RBS3-887 |
| - UL transport channel identity                             | 5                                                 |                                                                                        |         | RBS3-888 |
| Added or Reconfigured UL TrCH information                   | A1, A3 A4, A5, A6, A7, A9, A10                    | 1 DCH added, 1 DCH reconfigured (if from cell_DCH) OR 2 DCHs added (if from cell_FACH) |         | RBS3-889 |
| - Uplink transport channel type                             |                                                   | DCH                                                                                    | Rel-5   | RBS3-890 |
| - UL Transport channel identity                             |                                                   | 1                                                                                      |         | RBS3-891 |
| - TFS                                                       |                                                   |                                                                                        |         | RBS3-892 |
| - CHOICE Transport channel type                             |                                                   | Dedicated transport channels                                                           |         | RBS3-893 |
| - Dynamic Transport format                                  |                                                   |                                                                                        |         | RBS3-894 |
| information                                                 |                                                   |                                                                                        |         | RBS3-895 |
| - RLC Size                                                  |                                                   | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)           |         | RBS3-896 |
| - Number of TBs and TTI List                                |                                                   | Not Present                                                                            |         | RBS3-897 |
| - Transmission Time Interval                                |                                                   | Reference to clause 6.10 Parameter Set All                                             |         | RBS3-900 |
| - Number of Transport blocks                                |                                                   |                                                                                        |         | RBS3-901 |
| - CHOICE Logical channel list                               |                                                   |                                                                                        |         | RBS3-902 |
| - Semi-static Transport Format                              |                                                   |                                                                                        |         | RBS3-903 |
| information                                                 |                                                   |                                                                                        |         | RBS3-904 |
| - Transmission time interval                                |                                                   | Reference to clause 6.10 Parameter Set                                                 |         | RBS3-905 |
| - Type of channel coding                                    |                                                   | Reference to clause 6.10 Parameter Set                                                 |         | RBS3-906 |
| - Coding Rate                                               |                                                   | Reference to clause 6.10 Parameter Set                                                 |         | RBS3-907 |
| - Rate matching attribute                                   |                                                   | Reference to clause 6.10 Parameter Set                                                 |         | RBS3-908 |
| - CRC size                                                  |                                                   | Reference to clause 6.10 Parameter Set                                                 |         | RBS3-909 |
| - Uplink transport channel type                             |                                                   | DCH                                                                                    |         | RBS3-910 |
| - UL Transport channel identity                             |                                                   | 5                                                                                      |         | RBS3-911 |
| - TFS                                                       |                                                   |                                                                                        |         | RBS3-912 |
| - CHOICE Transport channel type                             |                                                   | Dedicated transport channels                                                           |         | RBS3-913 |
| - Dynamic Transport format                                  |                                                   |                                                                                        |         | RBS3-914 |
| information                                                 |                                                   |                                                                                        |         | RBS3-915 |
| - RLC Size                                                  |                                                   | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)           |         | RBS3-916 |
| - Number of TBs and TTI List                                |                                                   | Not Present                                                                            |         | RBS3-917 |
| - Transmission Time Interval                                |                                                   | Reference to clause 6.10 Parameter Set All                                             |         | RBS3-918 |
| - Number of Transport blocks                                |                                                   |                                                                                        |         | RBS3-919 |
| - CHOICE Logical channel list                               |                                                   |                                                                                        |         | RBS3-920 |
| - Semi-static Transport Format                              |                                                   |                                                                                        |         | RBS3-921 |
| information                                                 |                                                   |                                                                                        |         | RBS3-922 |
| - Transmission time interval                                |                                                   | Reference to clause 6.10 Parameter Set                                                 |         | RBS3-923 |
| - Type of channel coding                                    |                                                   | Reference to clause 6.10 Parameter Set                                                 |         | RBS3-924 |
| - Coding Rate                                               |                                                   | Reference to clause 6.10 Parameter Set                                                 |         | RBS3-925 |
| - Rate matching attribute                                   |                                                   | Reference to clause 6.10 Parameter Set                                                 |         | RBS3-926 |
| - CRC size                                                  |                                                   | Reference to clause 6.10 Parameter Set                                                 |         | RBS3-927 |
| Added or Reconfigured UL TrCH information                   | A11                                               | 1 DCH added for DTCH                                                                   |         | RBS3-928 |
| - Uplink transport channel type                             |                                                   | DCH                                                                                    |         | RBS3-929 |
| - UL Transport channel identity                             |                                                   | 4                                                                                      |         | RBS3-930 |
| - TFS                                                       |                                                   |                                                                                        |         | RBS3-931 |
| - CHOICE Transport channel type                             |                                                   | Dedicated transport channels                                                           |         | RBS3-932 |
| - Dynamic Transport format                                  |                                                   |                                                                                        |         | RBS3-933 |
| information                                                 |                                                   |                                                                                        |         | RBS3-934 |
| - RLC Size                                                  |                                                   | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.)           |         | RBS3-935 |
| - Number of TBs and TTI List                                |                                                   | Not Present                                                                            |         | RBS3-936 |
| - Transmission Time Interval                                |                                                   | Reference to clause 6.10 Parameter Set                                                 |         | RBS3-937 |
| - Number of Transport blocks                                |                                                   |                                                                                        |         | RBS3-938 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Condition                              | Value/remark                             | Version                                | Index                |          |
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| information<br>- CHOICE Logical channel list<br>- Semi-static Transport Format<br>- Transmission time interval<br>- Type of channel coding<br>- Coding Rate<br>- Rate matching attribute<br>- CRC size<br>Added or Reconfigured UL TrCH information<br>- Uplink transport channel type<br>- UL Transport channel identity<br>- TFS<br>- CHOICE Transport channel type<br>- Dynamic Transport format<br>information<br>- RLC Size<br>- Number of TBs and TTI List<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel list<br>- Semi-static Transport Format<br>information<br>- Transmission time interval<br>- Type of channel coding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A2, A8                                 | All                                      |                                        | RBS3-935<br>RBS3-936 |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-937             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-938             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-939             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-940             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-941             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) |                                        | RBS3-942             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | DCH                                      |                                        | RBS3-943             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | 5                                        |                                        | RBS3-944             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                          |                                        | RBS3-945             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Dedicated transport channels             |                                        | RBS3-946             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                          |                                        | RBS3-947             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-948             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | (This IE is repeated for TFI number.)    |                                        | RBS3-949             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Not Present                              |                                        | RBS3-950             |          |
| Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        | RBS3-951                                 |                                        |                      |          |
| All                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        | RBS3-952                                 |                                        |                      |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | RBS3-953                                 |                                        |                      |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-954             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-955             |          |
| - Coding Rate<br>- Rate matching attribute<br>- CRC size<br>- Uplink transport channel type<br>- UL Transport channel identity<br>- TFS<br>- CHOICE Transport channel type<br>- Dynamic Transport format<br>information<br>- RLC Size<br>- Number of TBs and TTI List<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel list<br>- Semi-static Transport Format<br>information<br>- Transmission time interval<br>- Type of channel coding<br>- Coding Rate<br>- Rate matching attribute<br>- CRC size<br>- Uplink transport channel type<br>- UL Transport channel identity<br>- TFS<br>- CHOICE Transport channel type<br>- Dynamic Transport format<br>information<br>- RLC Size<br>- Number of TBs and TTI List<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel list<br>- Semi-static Transport Format<br>information<br>- Transmission time interval<br>- Type of channel coding<br>- Coding Rate<br>- Rate matching attribute<br>- CRC size<br>- Uplink transport channel type<br>- UL Transport channel identity<br>- TFS<br>- CHOICE Transport channel type<br>- Dynamic Transport format<br>information<br>- RLC Size<br>- Number of TBs and TTI List<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel list<br>- Semi-static Transport Format<br>information<br>- Transmission time interval<br>- Type of channel coding<br>- Coding Rate<br>- Rate matching attribute<br>- CRC size<br>- Uplink transport channel type<br>- UL Transport channel identity<br>- TFS |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-956             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-957             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-958             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-959             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | DCH                                      |                                        | RBS3-960             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | 1                                        |                                        | RBS3-961             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                          |                                        | RBS3-962             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Dedicated transport channels             |                                        | RBS3-963             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                          |                                        |                      |          |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | (This IE is repeated for TFI number.)    |                                        | RBS3-965             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Not Present                              |                                        | RBS3-966             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-967             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | All                                      |                                        | RBS3-968             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                          |                                        | RBS3-969             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                          | Reference to clause 6.10 Parameter Set |                      | RBS3-970 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-971             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-972             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-973             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-974             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | DCH                                      |                                        | RBS3-975             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | 2                                        |                                        | RBS3-976             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                          |                                        | RBS3-977             |          |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                          |                                        | RBS3-979             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                          | Reference to clause 6.10 Parameter Set |                      | RBS3-980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | (This IE is repeated for TFI number.)    |                                        | RBS3-981             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Not Present                              |                                        | RBS3-982             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-983             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | All                                      |                                        | RBS3-984             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                          | RBS3-985                               |                      |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | Reference to clause 6.10 Parameter Set   |                                        | RBS3-986             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Reference to clause 6.10 Parameter Set |                                          | RBS3-987                               |                      |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Reference to clause 6.10 Parameter Set |                                          | RBS3-988                               |                      |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Reference to clause 6.10 Parameter Set |                                          | RBS3-989                               |                      |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Reference to clause 6.10 Parameter Set |                                          | RBS3-990                               |                      |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DCH                                    |                                          | RBS3-991                               |                      |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                                      |                                          | RBS3-992                               |                      |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                          | RBS3-993                               |                      |          |

| Information Element                                                                                                                                                                                                                                                                                                                                                          | Condition | Value/remark                                                                                                                                                                                                               | Version | Index                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format</li> </ul>                                                                                                                                                                                                                                                        |           | Dedicated transport channels                                                                                                                                                                                               |         | RBS3-994<br>RBS3-995                                                                                                                                                  |
| information                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                            |         |                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format</li> </ul>                                                                                                                |           | Reference to clause 6.10 Parameter Set<br>(This IE is repeated for TFI number.)<br>Not Present                                                                                                                             |         | RBS3-996<br>RBS3-997<br>RBS3-998                                                                                                                                      |
| information                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                            |         |                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul>                                                                                                                                                                               |           | Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set             |         | RBS3-999<br>RBS3-1000<br>RBS3-1001<br>RBS3-1002<br>RBS3-1003<br>RBS3-1004<br>RBS3-1005<br>RBS3-1006                                                                   |
| Added or Reconfigured UL TrCH                                                                                                                                                                                                                                                                                                                                                | A12       | 1 E-DCH added, 1 DCH added, 1 DCH reconfigured                                                                                                                                                                             | Rel-7   | RBS3-1007                                                                                                                                                             |
| information                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                            |         |                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- CHOICE UL parameters</li> <li>- CHOICE mode</li> <li>- HARQ info for E-DCH</li> <li>- CHOICE UL parameters</li> <li>- HARQ RV Configuration</li> <li>- Added or reconfigured E-DCH</li> </ul>                                                                                              |           | E-DCH<br>E-DCH<br>TDD<br><br>E-DCH<br>rtable                                                                                                                                                                               |         | RBS3-1008<br>RBS3-1009<br>RBS3-1010<br>RBS3-1011<br>RBS3-1012<br>RBS3-1013<br>RBS3-1014                                                                               |
| MAC-d flow                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                                                                                                                                            |         |                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- E-DCH MAC-d flow identity</li> <li>- E-DCH MAC-d flow power</li> </ul>                                                                                                                                                                                                                                                              |           | 2<br>0                                                                                                                                                                                                                     |         | RBS3-1015<br>RBS3-1016                                                                                                                                                |
| offset                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                                                                                            |         |                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- E-DCH MAC-d flow maximum</li> </ul>                                                                                                                                                                                                                                                                                                 |           | 7                                                                                                                                                                                                                          |         | RBS3-1017                                                                                                                                                             |
| number of retransmissions                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                            |         |                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- E-DCH MAC-d flow</li> </ul>                                                                                                                                                                                                                                                                                                         |           | Not Present                                                                                                                                                                                                                |         | RBS3-1018                                                                                                                                                             |
| multiplexing list                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                                                                                                                                            |         |                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- CHOICE transmission grant</li> </ul>                                                                                                                                                                                                                                                                                                |           | Scheduled grant info                                                                                                                                                                                                       |         | RBS3-1019                                                                                                                                                             |
| type                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                                                                                                            |         |                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format</li> </ul>                                                                                                                                                       |           | DCH<br>1<br><br>Dedicated transport channels                                                                                                                                                                               |         | RBS3-1020<br>RBS3-1021<br>RBS3-1022<br>RBS3-1023<br>RBS3-1024                                                                                                         |
| information                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                            |         |                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format</li> </ul>                                                                                                                |           | Reference to clause 6.10 Parameter Set<br>(This IE is repeated for TFI number.)<br>Not Present                                                                                                                             |         | RBS3-1025<br>RBS3-1026<br>RBS3-1027                                                                                                                                   |
| information                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                            |         |                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format</li> </ul> |           | Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>DCH<br>5 |         | RBS3-1028<br>RBS3-1029<br>RBS3-1030<br>RBS3-1031<br>RBS3-1032<br>RBS3-1033<br>RBS3-1034<br>RBS3-1035<br>RBS3-1036<br>RBS3-1037<br>RBS3-1038<br>RBS3-1039<br>RBS3-1040 |
| information                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                            |         |                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format</li> </ul>                                                                                                                |           | Reference to clause 6.10 Parameter Set<br>(This IE is repeated for TFI number.)<br>Not Present                                                                                                                             |         | RBS3-1041<br>RBS3-1042<br>RBS3-1043                                                                                                                                   |
| information                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                            |         |                                                                                                                                                                       |
| <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> </ul>                                                                                                                                                                                                                                                             |           | Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set                                                                                                                                           |         | RBS3-1044<br>RBS3-1045<br>RBS3-1046<br>RBS3-1047<br>RBS3-1048                                                                                                         |

| Information Element                                  | Condition | Value/remark                                                                        | Version | Index     |
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| - Coding Rate                                        | A13, A14  | Reference to clause 6.10 Parameter Set                                              | Rel-7   | RBS3-1049 |
| - Rate matching attribute                            |           | Reference to clause 6.10 Parameter Set                                              |         | RBS3-1050 |
| - CRC size                                           |           | Reference to clause 6.10 Parameter Set                                              |         | RBS3-1051 |
| Added or Reconfigured UL TrCH information            |           | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow                      |         | RBS3-1052 |
| - Uplink transport channel type                      |           | E-DCH                                                                               |         | RBS3-1053 |
| - CHOICE UL parameters                               |           | E-DCH                                                                               |         | RBS3-1054 |
| - CHOICE mode                                        |           | TDD                                                                                 |         | RBS3-1055 |
| - HARQ info for E-DCH                                |           |                                                                                     |         | RBS3-1056 |
| - CHOICE mode                                        |           | TDD                                                                                 |         | RBS3-1057 |
| - HARQ RV Configuration                              |           | rvtable                                                                             |         | RBS3-1058 |
| - Added or reconfigured E-DCH MAC-d flow             |           | (for DCCH)                                                                          |         | RBS3-1059 |
| - E-DCH MAC-d flow identity                          |           | 1                                                                                   |         | RBS3-1060 |
| - E-DCH MAC-d flow power                             |           | 0                                                                                   |         | RBS3-1061 |
| offset                                               |           |                                                                                     |         |           |
| - E-DCH MAC-d flow maximum number of retransmissions |           | 7                                                                                   |         | RBS3-1062 |
| - E-DCH MAC-d flow multiplexing list                 |           | Not Present                                                                         |         | RBS3-1063 |
| - CHOICE transmission grant type                     |           | Non-scheduled grant info                                                            |         | RBS3-1064 |
| - CHOICE mode                                        |           | TDD                                                                                 |         | RBS3-1065 |
| - CHOICE TDD option                                  |           | 3.84/7.68Mcps TDD                                                                   |         | RBS3-1066 |
| - Timeslot resource related information              |           | Bit map with all TS configured for E-DCH operation set to '1' all others set to '0' |         | RBS3-1067 |
| - Power Resource Related Information                 |           | 32                                                                                  |         | RBS3-1068 |
| - Activation time                                    |           | Set to the CFN on which the non-scheduled grant becomes active                      |         | RBS3-1069 |
| - Repetition period and length                       |           | Not present                                                                         |         | RBS3-1070 |
| - Code resource information                          |           | 2/1                                                                                 |         | RBS3-1071 |
| - Added or reconfigured E-DCH MAC-d flow             |           | (for DTCH)                                                                          |         | RBS3-1072 |
| - E-DCH MAC-d flow identity                          | A15       | 2                                                                                   | Rel-7   | RBS3-1073 |
| - E-DCH MAC-d flow power                             |           | 0                                                                                   |         | RBS3-1074 |
| offset                                               |           |                                                                                     |         |           |
| - E-DCH MAC-d flow maximum number of retransmissions |           | 7                                                                                   |         | RBS3-1075 |
| - E-DCH MAC-d flow multiplexing list                 |           | Not Present                                                                         |         | RBS3-1076 |
| - CHOICE transmission grant type                     |           | Scheduled grant info                                                                |         | RBS3-1077 |
| Added or Reconfigured UL TrCH information            |           | 1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows                     |         | RBS3-1078 |
| - Uplink transport channel type                      |           | E-DCH                                                                               |         | RBS3-1079 |
| - CHOICE UL parameters                               |           | E-DCH                                                                               |         | RBS3-1080 |
| - CHOICE mode                                        |           | TDD                                                                                 |         | RBS3-1081 |
| - HARQ info for E-DCH                                |           |                                                                                     |         | RBS3-1082 |
| - CHOICE mode                                        |           | TDD                                                                                 |         | RBS3-1083 |
| - HARQ RV Configuration                              |           | rvtable                                                                             |         | RBS3-1084 |
| - Added or reconfigured E-DCH MAC-d flow             |           | (for DCCH)                                                                          |         | RBS3-1085 |
| - E-DCH MAC-d flow identity                          |           | 1                                                                                   |         | RBS3-1086 |
| - E-DCH MAC-d flow power                             |           | 0                                                                                   |         | RBS3-1087 |
| offset                                               |           |                                                                                     |         |           |
| - E-DCH MAC-d flow maximum number of retransmissions |           | 7                                                                                   |         | RBS3-1088 |
| - E-DCH MAC-d flow multiplexing list                 |           | Not Present                                                                         |         | RBS3-1089 |
| - CHOICE transmission grant type                     |           | Non-scheduled grant info                                                            |         | RBS3-1090 |
| - CHOICE mode                                        |           | TDD                                                                                 |         | RBS3-1091 |
| - CHOICE TDD option                                  |           | 3.84/7.68Mcps TDD                                                                   |         | RBS3-1092 |
| - Timeslot resource related information              |           | Bit map with all TS configured for E-DCH operation set to '1' all others set to '0' |         | RBS3-1093 |

| Information Element                                  | Condition | Value/remark                                                                        | Version | Index     |
|------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|---------|-----------|
| - Power Resource Related Information                 | A16       | 32                                                                                  | Rel-7   | RBS3-1094 |
| - Activation time                                    |           | Set to the CFN on which the non-scheduled grant becomes active                      |         | RBS3-1095 |
| - Repetition period and length                       |           | Not present                                                                         |         | RBS3-1096 |
| - Code resource information                          |           | 2/1                                                                                 |         | RBS3-1097 |
| - Added or reconfigured E-DCH MAC-d flow             |           | (for first DTCH)                                                                    |         | RBS3-1098 |
| - E-DCH MAC-d flow identity                          |           | 2                                                                                   |         | RBS3-1099 |
| - E-DCH MAC-d flow power                             |           | 0                                                                                   |         | RBS3-1100 |
| offset                                               |           | 7                                                                                   |         | RBS3-1101 |
| - E-DCH MAC-d flow maximum number of retransmissions |           | Not Present                                                                         |         | RBS3-1102 |
| - E-DCH MAC-d flow multiplexing list                 |           | Scheduled grant info                                                                |         | RBS3-1103 |
| - CHOICE transmission grant type                     |           | (for second DTCH)                                                                   |         | RBS3-1104 |
| - Added or reconfigured E-DCH MAC-d flow             |           | 3                                                                                   |         | RBS3-1105 |
| - E-DCH MAC-d flow identity                          |           | 0                                                                                   |         | RBS3-1106 |
| - E-DCH MAC-d flow power                             |           | 7                                                                                   |         | RBS3-1107 |
| offset                                               |           | Not Present                                                                         |         | RBS3-1108 |
| - E-DCH MAC-d flow maximum number of retransmissions |           | Not Present                                                                         |         | RBS3-1108 |
| - E-DCH MAC-d flow multiplexing list                 |           | Scheduled grant info                                                                |         | RBS3-1109 |
| - CHOICE transmission grant type                     |           | 1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows                     |         | RBS3-1110 |
| Added or Reconfigured UL TrCH information            |           | E-DCH                                                                               |         | RBS3-1111 |
| - Uplink transport channel type                      |           | E-DCH                                                                               |         | RBS3-1112 |
| - CHOICE UL parameters                               |           | TDD                                                                                 |         | RBS3-1113 |
| - CHOICE mode                                        |           | TDD                                                                                 |         | RBS3-1114 |
| - HARQ info for E-DCH                                |           | TDD                                                                                 |         | RBS3-1115 |
| - CHOICE mode                                        |           | rvtable                                                                             |         | RBS3-1116 |
| - HARQ RV Configuration                              |           | (for DCCH)                                                                          |         | RBS3-1117 |
| - Added or reconfigured E-DCH MAC-d flow             |           | 1                                                                                   |         | RBS3-1118 |
| - E-DCH MAC-d flow identity                          |           | 0                                                                                   |         | RBS3-1119 |
| - E-DCH MAC-d flow power                             |           | 7                                                                                   |         | RBS3-1120 |
| offset                                               |           | Not Present                                                                         |         | RBS3-1121 |
| - E-DCH MAC-d flow maximum number of retransmissions |           | Not Present                                                                         |         | RBS3-1121 |
| - E-DCH MAC-d flow multiplexing list                 |           | Non-scheduled grant info                                                            |         | RBS3-1122 |
| - CHOICE transmission grant type                     |           | TDD                                                                                 |         | RBS3-1123 |
| - CHOICE mode                                        |           | 3.84/7.68Mcps TDD                                                                   |         | RBS3-1124 |
| - CHOICE TDD option                                  |           | Bit map with all TS configured for E-DCH operation set to '1' all others set to '0' |         | RBS3-1125 |
| - Timeslot resource related information              |           | 32                                                                                  |         | RBS3-1126 |
| - Power Resource Related Information                 |           | Set to the CFN on which the non-scheduled grant becomes active                      |         | RBS3-1127 |
| - Activation time                                    |           | Not present                                                                         |         | RBS3-1128 |
| - Repetition period and length                       |           | 2/1                                                                                 |         | RBS3-1129 |
| - Code resource information                          |           | (for first DTCH)                                                                    |         | RBS3-1130 |
| - Added or reconfigured E-DCH MAC-d flow             |           | 2                                                                                   |         | RBS3-1131 |
| - E-DCH MAC-d flow identity                          |           | 0                                                                                   |         | RBS3-1132 |
| - E-DCH MAC-d flow power                             |           | 7                                                                                   |         | RBS3-1133 |
| offset                                               |           | Not Present                                                                         |         | RBS3-1134 |
| - E-DCH MAC-d flow maximum number of retransmissions |           | Not Present                                                                         |         | RBS3-1134 |
| - E-DCH MAC-d flow                                   |           | Not Present                                                                         |         | RBS3-1134 |



| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Condition      | Value/remark                                                                                                                                                                                                                                                                                                                                                                                 | Version | Index                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| multiplexing list<br>- CHOICE transmission grant type<br>- Added or reconfigured E-DCH MAC-d flow<br>- E-DCH MAC-d flow identity<br>- E-DCH MAC-d flow power offset<br>- E-DCH MAC-d flow maximum number of retransmissions<br>- E-DCH MAC-d flow multiplexing list<br>- CHOICE transmission grant type<br>DL Transport channel information common for all transport channel<br>- SCCPCH TFCS                                                                                                                                    | A1, A2, A7, A8 | Scheduled grant info<br><br>(for second DTCH)<br><br>4<br>0<br><br>7<br><br>Not Present                                                                                                                                                                                                                                                                                                      |         | RBS3-1135<br>RBS3-1136<br>RBS3-1137<br>RBS3-1138<br>RBS3-1139<br>RBS3-1140<br>RBS3-1141<br>RBS3-1142<br>RBS3-1143                                                                                                                                                                         |
| - CHOICE mode<br>- Individual DL CCTrCH information<br>- DL TFCS identity<br>- CHOICE DL parameters<br>- UL DCH TFCS Identity<br>DL Transport channel information common for all transport channel<br>- SCCPCH TFCS<br>- CHOICE mode<br>- Individual DL CCTrCH information<br>- DL TFCS identity<br>- CHOICE DL parameters<br>- DL TFCS<br>- TFCI Field 1 Information<br>- CHOICE TFCS representation<br>- TFCS complete reconfigure<br>- CHOICE CTFC Size<br><br>- CTFC information<br>- CTFC<br><br>- Power offset information |                | TDD<br>1 CCTrCh<br><br>1<br>SameasUL<br>1<br><br>Not Present<br>TDD<br>1 CCTrCh<br><br>1<br>Independent<br><br>Complete reconfiguration<br><br>Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.3.4 Parameter Set.<br>This IE is repeated for TFC numbers and reference to clause 6.10.3.4<br>Reference to clause 6.10.3.4 Parameter Set<br>Not Present |         | RBS3-1144<br>RBS3-1145<br><br>RBS3-1146<br>RBS3-1147<br>RBS3-1148<br>RBS3-1149<br>RBS3-1150<br>RBS3-1151<br>RBS3-1152<br>RBS3-1153<br>RBS3-1154<br><br>RBS3-1155<br>RBS3-1156<br>RBS3-1157<br>RBS3-1158<br>RBS3-1159<br>RBS3-1160<br>RBS3-1161<br><br>RBS3-1162<br>RBS3-1163<br>RBS3-1164 |
| DL Transport channel information common for all transport channel<br>- SCCPCH TFCS<br>- CHOICE mode<br>- Individual DL CCTrCH information<br>- DL TFCS identity<br>- CHOICE DL parameters<br>- DL TFCS<br>- TFCI Field 1 Information<br>- CHOICE TFCS representation<br>- TFCS complete reconfigure<br>- CHOICE CTFC Size<br>- CTFC information<br>- CTFC<br><br>- Power offset information<br>- CTFC<br><br>- Power offset information                                                                                          |                | Not Present<br>TDD<br>1 CCTrCh<br><br>1<br>Independent<br><br>Complete reconfiguration<br><br>ctfc2bit<br><br>0<br>((DL DCH RAB, DCCH)=(TF0, TF0))<br>Not Present<br>1<br>((DL DCH RAB, DCCH)=(TF0, TF1))<br>Not Present                                                                                                                                                                     |         | RBS3-1165<br><br>RBS3-1166<br>RBS3-1167<br>RBS3-1168<br><br>RBS3-1169<br>RBS3-1170<br>RBS3-1171<br>RBS3-1172<br>RBS3-1173<br>RBS3-1174<br>RBS3-1175<br>RBS3-1176<br>RBS3-1177<br><br>RBS3-1178<br>RBS3-1179<br>RBS3-1180                                                                  |
| DL Transport channel information common for all transport channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A9             | Not Present                                                                                                                                                                                                                                                                                                                                                                                  | Rel-5   | RBS3-1165                                                                                                                                                                                                                                                                                 |
| DL Transport channel information common for all transport channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A14, A16       | Not Present                                                                                                                                                                                                                                                                                                                                                                                  | Rel-7   | RBS3-1181                                                                                                                                                                                                                                                                                 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Condition                                         | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Version        | Index                                                                                                                                                                                                                                                                                                                   |
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| Deleted DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A12, A13 | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Rel-5<br>Rel-7 | RBS3-1182<br>RBS3-1183<br>RBS3-1184                                                                                                                                                                                                                                                                                     |
| Deleted DL TrCH information<br>- Downlink transport channel type<br>- DL Transport channel identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | A14, A16                                          | DCH<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Rel-6          | RBS3-1185<br>RBS3-1186<br>RBS3-1187                                                                                                                                                                                                                                                                                     |
| Added or Reconfigured DL TrCH information<br>- Downlink transport channel type<br>- DL Transport channel identity<br>- CHOICE DL parameters<br>- Uplink transport channel type<br>- UL TrCH identity<br>- DCH quality target<br>- BLER Quality value<br>- Downlink transport channel type<br>- DL Transport channel identity<br>- CHOICE DL parameters<br>- Uplink transport channel type<br>- UL TrCH identity<br>- DCH quality target<br>- BLER Quality value                                                                                                                                                                                                                                                                                                   | A1                                                | 1 DCH added, 1 DCH reconfigured<br><br>DCH<br>6<br>Same as UL<br>DCH<br>1<br><br>-2.0<br>DCH<br>10<br>Same as UL<br>DCH<br>5<br><br>-2.0                                                                                                                                                                                                                                                                                                                                                                                                                                      |                | RBS3-1188<br><br>RBS3-1189<br>RBS3-1190<br>RBS3-1191<br>RBS3-1192<br>RBS3-1193<br>RBS3-1194<br>RBS3-1195<br>RBS3-1196<br>RBS3-1197<br>RBS3-1198<br>RBS3-1199<br>RBS3-1200<br>RBS3-1201<br>RBS3-1202<br>RBS3-1203                                                                                                        |
| Added or Reconfigured DL TrCH information<br>- Downlink transport channel type<br>- DL Transport channel identity<br>- CHOICE DL parameters<br>- Uplink transport channel type<br>- UL TrCH identity<br>- DCH quality target<br>- BLER Quality value<br>- Downlink transport channel type<br>- DL Transport channel identity<br>- CHOICE DL parameters<br><br>- TFS<br>- CHOICE Transport channel type<br>- Dynamic transport format<br>information<br>- RLC Size<br>- Number of TBs and TTI List<br>- Transmission Time Interval<br>- Number of Transport blocks<br><br>- CHOICE Logical channel list<br>- Semi-static Transport Format<br>information<br>- Transmission time interval<br>- Type of channel coding<br>- Coding Rate<br>- Rate matching attribute | A3, A4, A5, A6, A7                                | 2 TrCHs(DCH for DCCH and DCH for DTCH)<br>DCH<br>10<br>Same as UL<br>DCH<br>5<br><br>-2.0<br>DCH<br>6<br>Explicit<br>Except for RAB with the symmetric DL and UL rate: Same as UL<br><br>Dedicated transport channel<br><br>Reference to clause 6.10 Parameter Set<br>(This IE is repeated for TFI number.)<br>Not Present<br>Reference to clause 6.10 Parameter Set<br>only including TF0<br>All<br><br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set |                | RBS3-1204<br>RBS3-1205<br>RBS3-1206<br>RBS3-1207<br>RBS3-1208<br>RBS3-1209<br>RBS3-1210<br>RBS3-1211<br>RBS3-1212<br>RBS3-1213<br><br>RBS3-1214<br>RBS3-1215<br>RBS3-1216<br><br>RBS3-1217<br>RBS3-1218<br>RBS3-1219<br>RBS3-1220<br><br>RBS3-1221<br>RBS3-1222<br><br>RBS3-1223<br>RBS3-1224<br>RBS3-1225<br>RBS3-1226 |
| Added or Reconfigured DL TrCH information<br>- CRC size<br>- DCH quality target<br>- BLER Quality value<br>- Downlink transport channel type<br>- DL Transport channel identity<br>- CHOICE DL parameters<br>- Uplink transport channel type<br>- UL TrCH identity<br>- DCH quality target<br>- BLER Quality value<br>- Downlink transport channel type<br>- DL Transport channel identity                                                                                                                                                                                                                                                                                                                                                                        | A2, A8                                            | Reference to clause 6.10 Parameter Set<br><br>-2.0<br>4 TrCHs(DCH for DCCH and 3DCHs for DTCH)<br>DCH<br>10<br>Same as UL<br>DCH<br>5<br><br>2.0<br>DCH<br>6                                                                                                                                                                                                                                                                                                                                                                                                                  |                | RBS3-1227<br>RBS3-1228<br>RBS3-1229<br>RBS3-1230<br><br>RBS3-1231<br>RBS3-1232<br>RBS3-1233<br>RBS3-1234<br>RBS3-1235<br>RBS3-1236<br>RBS3-1237<br>RBS3-1238<br>RBS3-1239                                                                                                                                               |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition | Value/remark                                                                    | Version | Index     |
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| <ul style="list-style-type: none"> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format</li> </ul> information <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Dynamic transport format</li> </ul> information <ul style="list-style-type: none"> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format</li> </ul> information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format</li> </ul> information <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Dynamic transport format</li> </ul> information <ul style="list-style-type: none"> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format</li> </ul> information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format</li> </ul> information <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> </ul> |           | Explicit                                                                        |         | RBS3-1240 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1241 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Dedicated transport channel                                                     |         | RBS3-1242 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1243 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set<br>(This IE is repeated for TFI number.) |         | RBS3-1244 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1245 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1246 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         |           |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1248 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | All                                                                             |         | RBS3-1249 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1250 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         |           |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1252 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1253 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1254 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1255 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1256 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                                                                     |         | RBS3-1257 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | DCH                                                                             |         | RBS3-1258 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 7                                                                               |         | RBS3-1259 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Explicit                                                                        |         | RBS3-1260 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1261 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Dedicated transport channel                                                     |         | RBS3-1262 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1263 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         |           |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1265 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1266 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         |           |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1268 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | All                                                                             |         | RBS3-1269 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1270 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         |           |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1272 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1273 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1274 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1275 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1276 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                                                                     |         | RBS3-1277 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | DCH                                                                             |         | RBS3-1278 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 8                                                                               |         | RBS3-1279 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Explicit                                                                        |         | RBS3-1280 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1281 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Dedicated transport channel                                                     |         | RBS3-1282 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1283 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         |           |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1285 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1286 |
| <ul style="list-style-type: none"> <li>- Dynamic transport format</li> </ul> information <ul style="list-style-type: none"> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format</li> </ul> information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Not Present                                                                     |         | RBS3-1287 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1288 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | All                                                                             |         | RBS3-1289 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1290 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         |           |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1292 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1293 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1294 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set                                          |         | RBS3-1295 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                 |         | RBS3-1296 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                                                                     |         | RBS3-1297 |

| Information Element                       | Condition | Value/remark                                         | Version        | Index                  |
|-------------------------------------------|-----------|------------------------------------------------------|----------------|------------------------|
| Added or Reconfigured DL TrCH information | A9<br>A12 | 3 TrCHs (DCH for DCCH and DCH plus HS-DSCH for DTCH) | Rel-5<br>Rel-7 | RBS3-1298<br>RBS3-1299 |
| - Downlink transport channel type         |           | DCH                                                  |                | RBS3-1300              |
| - DL Transport channel identity           |           | 10                                                   |                | RBS3-1301              |
| - CHOICE DL parameters                    |           | Same as UL                                           |                | RBS3-1302              |
| - Uplink transport channel type           |           | DCH                                                  |                | RBS3-1303              |
| - UL TrCH identity                        |           | 5                                                    |                | RBS3-1304              |
| - DCH quality target                      |           |                                                      |                | RBS3-1305              |
| - BLER Quality value                      |           | -2.0                                                 |                | RBS3-1306              |
| - Downlink transport channel type         |           | DCH                                                  |                | RBS3-1307              |
| - DL Transport channel identity           |           | 6                                                    |                | RBS3-1308              |
| - CHOICE DL parameters                    |           | Explicit                                             |                | RBS3-1309              |
| - TFS                                     |           |                                                      |                | RBS3-1310              |
| - CHOICE Transport channel type           |           | Dedicated transport channel                          |                | RBS3-1311              |
| - Dynamic transport format                |           |                                                      |                | RBS3-1312              |
| information                               |           |                                                      |                |                        |
| - RLC Size                                |           | Reference to clause 6.10 Parameter Set               |                | RBS3-1313              |
| - Number of TBs and TTI List              |           | (This IE is repeated for TFI number.)                |                | RBS3-1314              |
| - Dynamic transport format                |           |                                                      |                | RBS3-1315              |
| information                               |           |                                                      |                |                        |
| - Transmission Time Interval              |           | Not Present                                          |                | RBS3-1316              |
| - Number of Transport blocks              |           | Reference to clause 6.10 Parameter Set               |                | RBS3-1317              |
| - CHOICE Logical channel list             |           | All                                                  |                | RBS3-1318              |
| - Semi-static Transport Format            |           |                                                      |                | RBS3-1319              |
| information                               |           |                                                      |                |                        |
| - Transmission time interval              |           | Reference to clause 6.10 Parameter Set               |                | RBS3-1320              |
| - Type of channel coding                  |           | Reference to clause 6.10 Parameter Set               |                | RBS3-1321              |
| - Coding Rate                             |           | Reference to clause 6.10 Parameter Set               |                | RBS3-1322              |
| - Rate matching attribute                 |           | Reference to clause 6.10 Parameter Set               |                | RBS3-1323              |
| - CRC size                                |           | Reference to clause 6.10 Parameter Set               |                | RBS3-1324              |
| - DCH quality target                      |           |                                                      |                | RBS3-1325              |
| - BLER Quality value                      |           | -2.0                                                 |                | RBS3-1326              |
| - Downlink transport channel type         |           | HS-DSCH                                              |                | RBS3-1327              |
| - DL Transport channel identity           |           | Not Present                                          |                | RBS3-1328              |
| - CHOICE DL parameters                    |           | HS-DSCH                                              |                | RBS3-1329              |
| - HARQ Info                               |           |                                                      |                | RBS3-1330              |
| - Number of Processes                     |           | Reference to clause 6.10.2.4.5                       |                | RBS3-1331              |
| - CHOICE Memory                           |           | Parameter Set                                        |                |                        |
| Partitioning                              |           | Implicit                                             |                | RBS3-1332              |
| - Added or reconfigured MAC-d             |           |                                                      |                | RBS3-1333              |
| flow                                      |           |                                                      |                |                        |
| - MAC-hs queue to add or                  |           | (one queue)                                          |                | RBS3-1334              |
| reconfigure list                          |           |                                                      |                |                        |
| - MAC-hs queue Id                         |           | 0                                                    |                | RBS3-1335              |
| - MAC-d Flow Identity                     |           | 0                                                    |                | RBS3-1336              |
| - T1                                      |           | 50                                                   |                | RBS3-1337              |
| - MAC-hs window size                      |           | 16                                                   |                | RBS3-1338              |
| - MAC-d PDU size Info                     |           |                                                      |                | RBS3-1339              |
| - MAC-d PDU size                          |           | 336                                                  |                | RBS3-1340              |
| - MAC-d PDU size index                    |           | 0                                                    |                | RBS3-1341              |
| - MAC-hs queue to delete list             |           | Not present                                          |                | RBS3-1342              |
| - DCH quality target                      |           | Not present                                          |                | RBS3-1343              |
| Added or Reconfigured DL TrCH information | A10       | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH)          | Rel-5          | RBS3-1344              |
| - Downlink transport channel type         |           | DCH                                                  |                | RBS3-1345              |
| - DL Transport channel identity           |           | 10                                                   |                | RBS3-1346              |
| - CHOICE DL parameters                    |           | Same as UL                                           |                | RBS3-1347              |
| - Uplink transport channel type           |           | DCH                                                  |                | RBS3-1348              |
| - UL TrCH identity                        |           | 5                                                    |                | RBS3-1349              |
| - DCH quality target                      |           |                                                      |                | RBS3-1350              |
| - BLER Quality value                      |           | -2.0                                                 |                | RBS3-1351              |
| - Downlink transport channel type         |           | HS-DSCH                                              |                | RBS3-1352              |
| - DL Transport channel identity           |           | Not Present                                          |                | RBS3-1353              |
| - CHOICE DL parameters                    |           | HS-DSCH                                              |                | RBS3-1354              |
| - HARQ Info                               |           |                                                      |                | RBS3-1355              |
| - Number of Processes                     |           | Reference to clause 6.10.2.4.5                       |                | RBS3-1356              |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Condition | Value/remark                                                                 | Version | Index     |
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| <ul style="list-style-type: none"> <li>- CHOICE <i>Memory Partitioning</i></li> <li>- Added or reconfigured MAC-d flow</li> <li>- MAC-hs queue to add or reconfigure list</li> <li>- MAC-hs queue Id</li> <li>- MAC-d Flow Identity</li> <li>- T1</li> <li>- MAC-hs window size</li> <li>- MAC-d PDU size Info</li> <li>- MAC-d PDU size</li> <li>- MAC-d PDU size index</li> <li>- MAC-hs queue to delete list</li> <li>- DCH quality target</li> </ul> Added or Reconfigured DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A11       | Parameter Set Implicit                                                       |         | RBS3-1357 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | 50                                                                           |         | RBS3-1362 |
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| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format</li> </ul> information <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format</li> </ul> information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul> information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> </ul> | A13       | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH)                                  | Rel-7   | RBS3-1390 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | -20 (-2.0)                                                                   |         | RBS3-1409 |
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| Information Element                        | Condition | Value/remark                                                                 | Version | Index     |
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| - HARQ Info                                | A14       | Reference to clause 6.10 Parameter Set Implicit                              | Rel-7   | RBS3-1413 |
| - Number of Processes                      |           |                                                                              |         | RBS3-1414 |
| - CHOICE <i>Memory</i>                     |           |                                                                              |         | RBS3-1415 |
| <i>Partitioning</i>                        |           | (one queue)                                                                  |         | RBS3-1416 |
| - Added or reconfigured MAC-d flow         |           |                                                                              |         | RBS3-1417 |
| - MAC-hs queue to add or reconfigure list  |           |                                                                              |         | RBS3-1418 |
| - MAC-hs queue Id                          |           | 0                                                                            |         | RBS3-1419 |
| - MAC-d Flow Identity                      |           | 0                                                                            |         | RBS3-1420 |
| - T1                                       |           | 50                                                                           |         | RBS3-1421 |
| - MAC-hs window size                       |           | 16                                                                           |         | RBS3-1422 |
| - MAC-d PDU size Info                      |           | 336                                                                          |         | RBS3-1423 |
| - MAC-d PDU size                           |           |                                                                              |         | RBS3-1424 |
| - MAC-d PDU size index                     |           |                                                                              |         | RBS3-1425 |
| - MAC-hs queue to delete list              |           | Not present                                                                  |         | RBS3-1426 |
| - DCH quality target                       |           | Not present                                                                  |         | RBS3-1427 |
| Added or Reconfigured DL TrCH information  |           | 1 TrCH (HS-DSCH for DTCH and DCCH)                                           |         | RBS3-1428 |
| - Downlink transport channel type          |           | HS-DSCH                                                                      |         | RBS3-1429 |
| - DL Transport channel identity            |           | Not Present                                                                  |         | RBS3-1430 |
| - CHOICE DL parameters                     |           | HS-DSCH                                                                      |         | RBS3-1431 |
| - HARQ Info                                |           | Reference to clause 6.10 Parameter Set Implicit                              |         | RBS3-1432 |
| - Number of Processes                      |           |                                                                              |         | RBS3-1433 |
| - CHOICE <i>Memory</i>                     |           |                                                                              |         | RBS3-1434 |
| <i>Partitioning</i>                        |           | (two queues)                                                                 |         | RBS3-1435 |
| - Added or reconfigured MAC-d flow         |           |                                                                              |         | RBS3-1436 |
| - MAC-hs queue to add or reconfigure list  |           |                                                                              |         | RBS3-1437 |
| - MAC-hs queue Id                          |           | 0 (for DTCH)                                                                 |         | RBS3-1438 |
| - MAC-d Flow Identity                      |           | 0                                                                            |         | RBS3-1439 |
| - T1                                       |           | 50                                                                           |         | RBS3-1440 |
| - MAC-hs window size                       |           | 16                                                                           |         | RBS3-1441 |
| - MAC-d PDU size Info                      |           | 336                                                                          |         | RBS3-1442 |
| - MAC-d PDU size                           |           |                                                                              |         | RBS3-1443 |
| - MAC-d PDU size index                     |           |                                                                              |         | RBS3-1444 |
| - MAC-hs queue Id                          |           | 1 (for DCCH)                                                                 |         | RBS3-1445 |
| - MAC-d Flow Identity                      |           | 1                                                                            |         | RBS3-1446 |
| - T1                                       |           | 50                                                                           |         | RBS3-1447 |
| - MAC-hs window size                       |           | 16                                                                           |         | RBS3-1448 |
| - MAC-d PDU size Info                      |           | 148                                                                          |         | RBS3-1449 |
| - MAC-d PDU size                           |           |                                                                              |         | RBS3-1450 |
| - MAC-d PDU size index                     |           |                                                                              |         | RBS3-1451 |
| - MAC-hs queue to delete list              |           | Not present                                                                  |         | RBS3-1452 |
| - DCH quality target                       |           | Not present                                                                  |         | RBS3-1453 |
| Added or Reconfigured DL TrCH information  | A15       | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH)                                  | Rel-7   | RBS3-1454 |
| - Downlink transport channel type          |           | DCH                                                                          |         | RBS3-1455 |
| - DL Transport channel identity            |           | 10                                                                           |         | RBS3-1456 |
| - CHOICE DL parameters                     |           | Explicit                                                                     |         | RBS3-1457 |
| - TFS                                      |           | Dedicated transport channels                                                 |         | RBS3-1458 |
| - CHOICE Transport channel type            |           |                                                                              |         | RBS3-1459 |
| - Dynamic Transport format information     |           |                                                                              |         | RBS3-1460 |
| - RLC Size                                 |           | Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number.) |         | RBS3-1461 |
| - Number of TBs and TTI List               |           |                                                                              |         | RBS3-1462 |
| - Transmission Time Interval               |           |                                                                              |         | RBS3-1463 |
| - Number of Transport blocks               |           | Reference to clause 6.10 Parameter Set All                                   |         | RBS3-1464 |
| - CHOICE Logical channel list              |           |                                                                              |         | RBS3-1465 |
| - Semi-static Transport Format information |           |                                                                              |         | RBS3-1466 |
| - Transmission time interval               |           | Reference to clause 6.10 Parameter Set                                       |         | RBS3-1467 |
| - Type of channel coding                   |           | Reference to clause 6.10 Parameter Set                                       |         | RBS3-1468 |
| - Coding Rate                              |           | Reference to clause 6.10 Parameter Set                                       |         | RBS3-1469 |
| - Rate matching attribute                  |           | Reference to clause 6.10 Parameter Set                                       |         | RBS3-1470 |
| - CRC size                                 |           | Reference to clause 6.10 Parameter Set                                       |         | RBS3-1471 |

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| - DCH quality target                      | A16       | -20 (-2.0)                                      | Rel-7   | RBS3-1470 |
| - BLER Quality value                      |           | HS-DSCH                                         |         | RBS3-1471 |
| - Downlink transport channel type         |           | Not Present                                     |         | RBS3-1472 |
| - DL Transport channel identity           |           | HS-DSCH                                         |         | RBS3-1473 |
| - CHOICE DL parameters                    |           |                                                 |         | RBS3-1474 |
| - HARQ Info                               |           |                                                 |         | RBS3-1475 |
| - Number of Processes                     |           | Reference to clause 6.10 Parameter Set Implicit |         | RBS3-1476 |
| - CHOICE Memory                           |           |                                                 |         | RBS3-1477 |
| <i>Partitioning</i>                       |           |                                                 |         |           |
| - Added or reconfigured MAC-d flow        |           |                                                 |         | RBS3-1478 |
| - MAC-hs queue to add or reconfigure list |           | (two queues)                                    |         | RBS3-1479 |
| - MAC-hs queue Id                         |           | 0 (for first DTCH)                              |         | RBS3-1480 |
| - MAC-d Flow Identity                     |           | 0                                               |         | RBS3-1481 |
| - T1                                      |           | 50                                              |         | RBS3-1482 |
| - MAC-hs window size                      |           | 16                                              |         | RBS3-1483 |
| - MAC-d PDU size Info                     |           |                                                 |         | RBS3-1484 |
| - MAC-d PDU size                          |           | 336                                             |         | RBS3-1485 |
| - MAC-d PDU size index                    |           | 0                                               |         | RBS3-1486 |
| - MAC-hs queue Id                         |           | 2 (for second DTCH)                             |         | RBS3-1487 |
| - MAC-d Flow Identity                     |           | 2                                               |         | RBS3-1488 |
| - T1                                      |           | 50                                              |         | RBS3-1489 |
| - MAC-hs window size                      |           | 16                                              |         | RBS3-1490 |
| - MAC-d PDU size Info                     |           |                                                 |         | RBS3-1491 |
| - MAC-d PDU size                          |           | 336                                             |         | RBS3-1492 |
| - MAC-d PDU size index                    |           | 0                                               |         | RBS3-1493 |
| - MAC-hs queue to delete list             |           | Not present                                     |         | RBS3-1494 |
| - DCH quality target                      |           | Not present                                     |         | RBS3-1495 |
| Added or Reconfigured DL TrCH information |           | 1 TrCH (HS-DSCH for 2 DTCHs and DCCH)           |         | RBS3-1496 |
| - Downlink transport channel type         |           | HS-DSCH                                         |         | RBS3-1497 |
| - DL Transport channel identity           |           | Not Present                                     |         | RBS3-1498 |
| - CHOICE DL parameters                    |           | HS-DSCH                                         |         | RBS3-1499 |
| - HARQ Info                               |           |                                                 |         | RBS3-1500 |
| - Number of Processes                     |           | Reference to clause 6.10 Parameter Set Implicit |         | RBS3-1501 |
| - CHOICE Memory                           |           |                                                 |         | RBS3-1502 |
| <i>Partitioning</i>                       |           |                                                 |         |           |
| - Added or reconfigured MAC-d flow        |           |                                                 |         | RBS3-1503 |
| - MAC-hs queue to add or reconfigure list |           | (three queues)                                  |         | RBS3-1504 |
| - MAC-hs queue Id                         |           | 0 (for first DTCH)                              |         | RBS3-1505 |
| - MAC-d Flow Identity                     |           | 0                                               |         | RBS3-1506 |
| - T1                                      |           | 50                                              |         | RBS3-1507 |
| - MAC-hs window size                      |           | 16                                              |         | RBS3-1508 |
| - MAC-d PDU size Info                     |           |                                                 |         | RBS3-1509 |
| - MAC-d PDU size                          |           | 336                                             |         | RBS3-1510 |
| - MAC-d PDU size index                    |           | 0                                               |         | RBS3-1511 |
| - MAC-hs queue Id                         |           | 1 (for DCCH)                                    |         | RBS3-1512 |
| - MAC-d Flow Identity                     |           | 1                                               |         | RBS3-1513 |
| - T1                                      |           | 50                                              |         | RBS3-1514 |
| - MAC-hs window size                      |           | 16                                              |         | RBS3-1515 |
| - MAC-d PDU size Info                     |           |                                                 |         | RBS3-1516 |
| - MAC-d PDU size                          |           | 148                                             |         | RBS3-1517 |
| - MAC-d PDU size index                    |           | 0                                               |         | RBS3-1518 |
| - MAC-hs queue Id                         |           | 3 (for second DTCH)                             |         | RBS3-1519 |
| - MAC-d Flow Identity                     |           | 3                                               |         | RBS3-1520 |
| - T1                                      |           | 50                                              |         | RBS3-1521 |
| - MAC-hs window size                      |           | 16                                              |         | RBS3-1522 |
| - MAC-d PDU size Info                     |           |                                                 |         | RBS3-1523 |
| - MAC-d PDU size                          |           | 112                                             |         | RBS3-1524 |
| - MAC-d PDU size index                    |           | 0                                               |         | RBS3-1525 |
| - MAC-d PDU size                          |           | 144                                             |         | RBS3-1526 |
| - MAC-d PDU size index                    |           | 1                                               |         | RBS3-1527 |
| - MAC-d PDU size                          |           | 160                                             |         | RBS3-1528 |
| - MAC-d PDU size index                    |           | 2                                               |         | RBS3-1529 |

| Information Element                 | Condition                                                        | Value/remark                                                                                                                | Version            | Index                               |
|-------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------|
| - MAC-d PDU size                    |                                                                  | 176                                                                                                                         |                    | RBS3-1530                           |
| - MAC-d PDU size index              |                                                                  | 3                                                                                                                           |                    | RBS3-1531                           |
| - MAC-d PDU size                    |                                                                  | 192                                                                                                                         |                    | RBS3-1532                           |
| - MAC-d PDU size index              |                                                                  | 4                                                                                                                           |                    | RBS3-1533                           |
| - MAC-d PDU size                    |                                                                  | 224                                                                                                                         |                    | RBS3-1534                           |
| - MAC-d PDU size index              |                                                                  | 5                                                                                                                           |                    | RBS3-1535                           |
| - MAC-d PDU size                    |                                                                  | 296                                                                                                                         |                    | RBS3-1536                           |
| - MAC-d PDU size index              |                                                                  | 6                                                                                                                           |                    | RBS3-1537                           |
| - MAC-d PDU size                    |                                                                  | 344                                                                                                                         |                    | RBS3-1538                           |
| - MAC-d PDU size index              |                                                                  | 7                                                                                                                           |                    | RBS3-1539                           |
| - MAC-hs queue to delete list       |                                                                  | Not present                                                                                                                 |                    | RBS3-1540                           |
| - DCH quality target                |                                                                  | Not present                                                                                                                 |                    | RBS3-1541                           |
| Frequency info                      | A1, A2, A3, A4, A5, A7, A8, 11, A9, A10, A12, A13, A14, A15, A16 |                                                                                                                             | Rel-5<br>Rel-7     | RBS3-1542<br>RBS3-1543<br>RBS3-1544 |
| - CHOICE mode                       |                                                                  | TDD                                                                                                                         |                    | RBS3-1545                           |
| - UARFCN (Nt)                       |                                                                  | Reference to clause 5.1 Test frequencies if frequency is different from the current frequency otherwise set to Not Present. |                    | RBS3-1546                           |
| Frequency info                      | A6                                                               | Not Present                                                                                                                 |                    | RBS3-1547                           |
| Maximum allowed UL TX power         | A1, A2, A3, A4, A7, A8, A11, A9, A10, A12, A13, A14, A15, A16    | 33dBm                                                                                                                       | Rel-5<br>Rel-7     | RBS3-1548<br>RBS3-1549<br>RBS3-1550 |
| Maximum allowed UL TX power         | A5, A6                                                           | Not Present                                                                                                                 |                    | RBS3-1551                           |
| CHOICE channel requirement          | A1, A2, A3, A4, A7, A8, A9, A10, A11                             | Uplink DPCH info                                                                                                            | R99 and Rel-4 only | RBS3-1552                           |
| - Uplink DPCH power control info    |                                                                  |                                                                                                                             |                    | RBS3-1553                           |
| - CHOICE mode                       |                                                                  | TDD                                                                                                                         |                    | RBS3-1554                           |
| - UL target SIR                     |                                                                  | Not Present                                                                                                                 |                    | RBS3-1555                           |
| - CHOICE UL OL PC info              |                                                                  | Broadcast UL OL PC info                                                                                                     |                    | RBS3-1556                           |
| - CHOICE mode                       |                                                                  | TDD                                                                                                                         |                    | RBS3-1557                           |
| - Uplink Timing Advance Control     |                                                                  |                                                                                                                             |                    | RBS3-1558                           |
| - CHOICE Timing Advance             |                                                                  | Enabled                                                                                                                     |                    | RBS3-1559                           |
| - CHOICE TDD option                 |                                                                  | 3.84 Mcps TDD                                                                                                               |                    | RBS3-1560                           |
| - UL Timing Advance                 |                                                                  | Determined by observed timing deviation of the RACH at the node B                                                           |                    | RBS3-1561                           |
| - UL CCTrCH List                    |                                                                  | 1 CCTrCh                                                                                                                    |                    | RBS3-1562                           |
| - TFCS Id                           |                                                                  | 1                                                                                                                           |                    | RBS3-1563                           |
| - UL target SIR                     |                                                                  | +20dB                                                                                                                       |                    | RBS3-1564                           |
| - Activation time                   |                                                                  | Not present                                                                                                                 |                    | RBS3-1565                           |
| - Duration                          |                                                                  | Not present                                                                                                                 |                    | RBS3-1566                           |
| - Common timeslot info              |                                                                  |                                                                                                                             |                    | RBS3-1567                           |
| - 2 <sup>nd</sup> interleaving mode |                                                                  | Reference to clause 6.10 Parameter Set                                                                                      |                    | RBS3-1568                           |
| - TFCI coding                       |                                                                  | Reference to clause 6.10 Parameter Set                                                                                      |                    | RBS3-1569                           |
| - Puncturing Limit                  |                                                                  | Reference to clause 6.10 Parameter Set                                                                                      |                    | RBS3-1570                           |
| - Repetition Period                 |                                                                  | Reference to clause 6.10 Parameter Set                                                                                      |                    | RBS3-1571                           |
| - Repetition Length                 |                                                                  | Reference to clause 6.10 Parameter Set                                                                                      |                    | RBS3-1572                           |
| - Uplink DPCH timeslots and codes   |                                                                  |                                                                                                                             |                    | RBS3-1573                           |
| - Dynamic SF usage                  |                                                                  | TRUE                                                                                                                        |                    | RBS3-1574                           |
| - Timeslot number                   |                                                                  | The number of an uplink timeslot that has unassigned codes.                                                                 |                    | RBS3-1575                           |
| - TFCI existence                    |                                                                  | TRUE                                                                                                                        |                    | RBS3-1576                           |
| - Midamble shift and burst type     |                                                                  |                                                                                                                             |                    | RBS3-1577                           |
| - CHOICE TDD option                 |                                                                  | 3.84 Mcps                                                                                                                   |                    | RBS3-1578                           |
| - CHOICE Burst Type                 |                                                                  | Reference to clause 6.10 Parameter Set                                                                                      |                    | RBS3-1579                           |
| - Midamble Allocation Mode          |                                                                  | Default                                                                                                                     |                    | RBS3-1580                           |
| - Midamble configuration            |                                                                  | Choose lowest possible Kcell value given burst type                                                                         |                    | RBS3-1581                           |
| - CHOICE TDD option                 |                                                                  | 3.84 Mcps TDD                                                                                                               |                    | RBS3-1582                           |
| - First timeslot Code List          |                                                                  | Repeated (1,2) for each channelisation code assigned in the slot to meet the                                                |                    | RBS3-1583                           |



| Information Element                                   | Condition               | Value/remark                                                                                                                                                                                                       | Version           | Index                  |
|-------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------|
| - Channelisation code                                 |                         | needs of clause 6.10 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in clause 6.10 Parameter Set.                                                                              |                   | RBS3-1584              |
| - CHOICE more timeslots                               |                         | The presence of this IE depends upon the number of resources specified in clause 6.10 Parameter Set and the number of slots in which they are being assigned.                                                      |                   | RBS3-1585              |
| - UL CCTrCH List to Remove CHOICE channel requirement | A5,A6                   | Not present<br>Not Present                                                                                                                                                                                         | Rel-5 and earlier | RBS3-1586<br>RBS3-1587 |
| Uplink DPCH info                                      | A12, A13, A14, A15, A16 |                                                                                                                                                                                                                    | Rel-7             | RBS3-1588              |
| - Uplink DPCH power control info                      |                         | TDD                                                                                                                                                                                                                |                   | RBS3-1589              |
| - CHOICE mode                                         |                         | Not Present                                                                                                                                                                                                        |                   | RBS3-1590              |
| - UL target SIR                                       |                         | Broadcast UL OL PC info                                                                                                                                                                                            |                   | RBS3-1591              |
| - CHOICE UL OL PC info                                |                         | TDD                                                                                                                                                                                                                |                   | RBS3-1592              |
| - CHOICE mode                                         |                         |                                                                                                                                                                                                                    |                   | RBS3-1593              |
| - Uplink Timing Advance Control                       |                         | Enabled                                                                                                                                                                                                            |                   | RBS3-1594              |
| - CHOICE Timing Advance                               |                         | 3.84 Mcps TDD                                                                                                                                                                                                      |                   | RBS3-1595              |
| - CHOICE TDD option                                   |                         | Determined by observed timing deviation of the RACH at the node B                                                                                                                                                  |                   | RBS3-1596              |
| - UL Timing Advance                                   |                         | 1 CCTrCh                                                                                                                                                                                                           |                   | RBS3-1597              |
| - UL CCTrCH List                                      |                         | 1                                                                                                                                                                                                                  |                   | RBS3-1598              |
| - TFCS Id                                             |                         | +20dB                                                                                                                                                                                                              |                   | RBS3-1599              |
| - UL target SIR                                       |                         | Not present                                                                                                                                                                                                        |                   | RBS3-1600              |
| - Activation time                                     |                         | Not present                                                                                                                                                                                                        |                   | RBS3-1601              |
| - Duration                                            |                         |                                                                                                                                                                                                                    |                   | RBS3-1602              |
| - Common timeslot info                                |                         | Reference to clause 6.10 Parameter Set                                                                                                                                                                             |                   | RBS3-1603              |
| - 2 <sup>nd</sup> interleaving mode                   |                         | Reference to clause 6.10 Parameter Set                                                                                                                                                                             |                   | RBS3-1604              |
| - TFCI coding                                         |                         | Reference to clause 6.10 Parameter Set                                                                                                                                                                             |                   | RBS3-1605              |
| - Puncturing Limit                                    |                         | Reference to clause 6.10 Parameter Set                                                                                                                                                                             |                   | RBS3-1606              |
| - Repetition Period                                   |                         | Reference to clause 6.10 Parameter Set                                                                                                                                                                             |                   | RBS3-1607              |
| - Repetition Length                                   |                         | Reference to clause 6.10 Parameter Set                                                                                                                                                                             |                   | RBS3-1608              |
| - Uplink DPCH timeslots and codes                     |                         |                                                                                                                                                                                                                    |                   | RBS3-1609              |
| - Dynamic SF usage                                    |                         | TRUE                                                                                                                                                                                                               |                   | RBS3-1610              |
| - Timeslot number                                     |                         | The number of an uplink timeslot that has unassigned codes.                                                                                                                                                        |                   | RBS3-1611              |
| - TFCI existence                                      |                         | TRUE                                                                                                                                                                                                               |                   | RBS3-1612              |
| - Midamble shift and burst type                       |                         | 3.84 Mcps                                                                                                                                                                                                          |                   | RBS3-1613              |
| - CHOICE TDD option                                   |                         | Reference to clause 6.10 Parameter Set                                                                                                                                                                             |                   | RBS3-1614              |
| - CHOICE Burst Type                                   |                         | Default                                                                                                                                                                                                            |                   | RBS3-1615              |
| - Midamble Allocation Mode                            |                         | Choose lowest possible Kcell value given burst type                                                                                                                                                                |                   | RBS3-1616              |
| - Midamble configuration                              |                         | 3.84 Mcps TDD                                                                                                                                                                                                      |                   | RBS3-1617              |
| - CHOICE TDD option                                   |                         | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6.10 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in clause 6.10 Parameter Set. |                   | RBS3-1618              |
| - First timeslot Code List                            |                         | The presence of this IE depends upon the number of resources specified in clause 6.10 Parameter Set and the number of slots in which they are being assigned.                                                      |                   | RBS3-1619              |
| - Channelisation code                                 |                         | Not present                                                                                                                                                                                                        |                   | RBS3-1620              |
| - CHOICE more timeslots                               |                         |                                                                                                                                                                                                                    |                   | RBS3-1621              |
| - UL CCTrCH List to Remove E-DCH info                 | A12, A13, A14, A15, A16 |                                                                                                                                                                                                                    | Rel-7             | RBS3-1622<br>RBS3-1623 |
| - MAC-es/e reset indicator                            |                         | TRUE                                                                                                                                                                                                               |                   | RBS3-1624              |
| - CHOICE mode                                         |                         | TDD                                                                                                                                                                                                                |                   | RBS3-1625              |
| - CHOICE TDD mode                                     |                         | 3.84/7.68Mcps TDD                                                                                                                                                                                                  |                   | RBS3-1626              |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition                           | Value/remark                                                                                                                                                                                                                                                                                                                                                                                            | Version            | Index                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- E-RUCCH info</li> <li>- E-RUCCH constant value</li> <li>- E-RUCCH persistence scaling</li> <li>- T-RUCCH</li> <li>- E-RUCCH timeslot number</li> <li>- E-RUCCH midamble</li> <li>- T-adv</li> <li>- T-SCHED</li> <li>- CHOICE TDD option <ul style="list-style-type: none"> <li>- CHOICE SF</li> </ul> </li> <li>- E-PUCH info</li> <li>- E-TFCS information</li> <li>- Reference Beta Information</li> </ul>                  |                                     | 0dB<br>0.9<br>100ms<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>3.84Mcps TDD<br>Not present<br><br>Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                            |                    | RBS3-1627<br>RBS3-1628<br>RBS3-1629<br>RBS3-1630<br>RBS3-1631<br>RBS3-1632<br>RBS3-1633<br>RBS3-1634<br>RBS3-1635<br>RBS3-1636<br>RBS3-1637<br>RBS3-1638<br>RBS3-1639 |
| QPSK list                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                  |                    | RBS3-1640                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>- Reference Code Rate</li> <li>- Reference beta</li> <li>- Reference Beta Information</li> </ul>                                                                                                                                                                                                                                                                                                                                 |                                     | Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                              |                    | RBS3-1641<br>RBS3-1642                                                                                                                                                |
| 16QAM list                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     | Reference to clause 6.10 Parameter Set                                                                                                                                                                                                                                                                                                                                                                  |                    | RBS3-1643                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>- Reference Code Rate</li> <li>- Reference beta</li> <li>- CHOICE TDD mode</li> <li>- N<sub>E-UCCH</sub></li> <li>- E-PUCH constant value</li> <li>- E-PUCH TS configuration list</li> <li>- TS number</li> <li>- CHOICE <i>Burst Type</i></li> <li>- Midamble configuration</li> <li>- E-PUCH code hopping</li> <li>- E-PUCH TPC step size</li> <li>- Minimum allowed code rate</li> <li>- Maximum allowed code rate</li> </ul> |                                     | Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>3.84/7.68 Mcps TDD<br>Not Present<br>0dB<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>TRUE<br>1dB<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set |                    | RBS3-1644<br>RBS3-1645<br>RBS3-1646<br>RBS3-1647<br>RBS3-1648<br>RBS3-1649<br>RBS3-1650<br>RBS3-1651<br>RBS3-1652<br>RBS3-1653<br>RBS3-1654<br>RBS3-1655              |
| CHOICE Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A1, A2, A3, A4, A5, A6, A7, A8, A11 | TDD                                                                                                                                                                                                                                                                                                                                                                                                     | R99 and Rel-4 only | RBS3-1656                                                                                                                                                             |
| Downlink HS-PDSCH Information                                                                                                                                                                                                                                                                                                                                                                                                                                           | A1, A2, A3, A4, A5, A6, A7, A8, A11 | Not Present                                                                                                                                                                                                                                                                                                                                                                                             | Rel-5              | RBS3-1657                                                                                                                                                             |
| Downlink HS-PDSCH Information                                                                                                                                                                                                                                                                                                                                                                                                                                           | A9, A10                             |                                                                                                                                                                                                                                                                                                                                                                                                         | Rel-5              | RBS3-1658                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A12, A13, A14, A15, A16             |                                                                                                                                                                                                                                                                                                                                                                                                         | Rel-7              | RBS3-1659                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>- HS-SCCH Info</li> <li>- CHOICE mode</li> <li>- CHOICE TDD option</li> <li>- Ack-Nack Power Offset</li> <li>- HS-SICH Power Control Info</li> <li>- UL SIR target</li> <li>- HS-SICH Constant Value</li> <li>- D<sub>hs-sync</sub></li> <li>- HS-SCCH Set Configuration</li> <li>- Timeslot number</li> </ul>                                                                                                                   |                                     | TDD<br>3.84 Mcps<br>0dB<br><br>0dB<br>-10dB<br>Not present<br>4<br>The timeslot in which HS-SCCH is to be configured<br>CC16/x where x is a previously unassigned channelisation code in this TS<br>Default<br>8<br>-2.4 (note that this equates to a BLER target of 0.4%, log10(0.004) = -2.4)                                                                                                         |                    | RBS3-1660<br>RBS3-1661<br>RBS3-1662<br>RBS3-1663<br>RBS3-1664<br>RBS3-1665<br>RBS3-1666<br>RBS3-1667<br>RBS3-1668<br>RBS3-1669                                        |
| - Channelisation code                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     | The timeslot in which HS-SICH is to be configured<br>CC16/x where x is a previously unassigned channelisation code in this TS                                                                                                                                                                                                                                                                           |                    | RBS3-1670                                                                                                                                                             |
| - Midamble Allocation mode                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     | Default                                                                                                                                                                                                                                                                                                                                                                                                 |                    | RBS3-1671                                                                                                                                                             |
| - Midamble configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     | 8                                                                                                                                                                                                                                                                                                                                                                                                       |                    | RBS3-1672                                                                                                                                                             |
| - BLER target                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     | -2.4 (note that this equates to a BLER target of 0.4%, log10(0.004) = -2.4)                                                                                                                                                                                                                                                                                                                             |                    | RBS3-1673                                                                                                                                                             |
| - HS-SICH configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |                                                                                                                                                                                                                                                                                                                                                                                                         |                    | RBS3-1674                                                                                                                                                             |
| - Timeslot number                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     | The timeslot in which HS-SICH is to be configured<br>CC16/x where x is a previously unassigned channelisation code in this TS                                                                                                                                                                                                                                                                           |                    | RBS3-1675                                                                                                                                                             |
| - Channelisation code                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                     |                                                                                                                                                                                                                                                                                                                                                                                                         |                    | RBS3-1676                                                                                                                                                             |
| - Midamble Allocation mode                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                     | Default                                                                                                                                                                                                                                                                                                                                                                                                 |                    | RBS3-1677                                                                                                                                                             |
| - Midamble configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     | 8                                                                                                                                                                                                                                                                                                                                                                                                       |                    | RBS3-1678                                                                                                                                                             |
| - Measurement Feedback Info                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     | Not Present                                                                                                                                                                                                                                                                                                                                                                                             |                    | RBS3-1679                                                                                                                                                             |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     | TDD                                                                                                                                                                                                                                                                                                                                                                                                     |                    | RBS3-1680                                                                                                                                                             |
| - CHOICE TDD option                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     | 3.84 Mcps TDD                                                                                                                                                                                                                                                                                                                                                                                           |                    | RBS3-1681                                                                                                                                                             |

| Information Element                             | Condition                            | Value/remark                                            | Version            | Index     |
|-------------------------------------------------|--------------------------------------|---------------------------------------------------------|--------------------|-----------|
| - HS-PDSCH Timeslot Configuration               |                                      |                                                         |                    | RBS3-1682 |
| - HS-PDSCH Timeslot Configuration List          |                                      | Reference to clause 6.10 Parameter Set                  |                    | RBS3-1683 |
| - Timeslot Number                               |                                      | The timeslot(s) in which HS-HS-DSCH is to be configured |                    | RBS3-1684 |
| - CHOICE Burst Type                             |                                      | Reference to clause 6.10 Parameter Set                  |                    | RBS3-1685 |
| - Midamble Allocation Mode                      |                                      | Default                                                 |                    | RBS3-1686 |
| - Midamble configuration burst type             |                                      | 8                                                       |                    | RBS3-1687 |
| 1 and 3                                         |                                      |                                                         |                    |           |
| Downlink information common for all radio links | A5, A6                               | Not present                                             |                    | RBS3-1688 |
| Downlink information common for all radio links | A1, A2, A3, A9, A11                  |                                                         |                    | RBS3-1689 |
| - CHOICE DPCH info                              |                                      | Downlink DPCH info common for all RL                    | Rel-6              | RBS3-1690 |
| - Timing indication                             |                                      | Maintain                                                |                    | RBS3-1691 |
| - CFN-targetSFN frame offset                    |                                      | Not Present                                             | R99 and Rel-4 only | RBS3-1692 |
| - Downlink DPCH power control information       |                                      |                                                         |                    | RBS3-1693 |
| - CHOICE mode                                   |                                      | TDD                                                     |                    | RBS3-1694 |
| - TPC Step Size                                 |                                      | 1                                                       |                    | RBS3-1695 |
| - MAC-d HFN initial value                       |                                      | Not Present                                             |                    | RBS3-1696 |
| - CHOICE mode                                   |                                      | TDD                                                     |                    | RBS3-1697 |
| - CHOICE mode                                   |                                      | TDD                                                     |                    | RBS3-1698 |
| - CHOICE TDD option                             |                                      | 3.84 Mcps TDD                                           | Rel-4              | RBS3-1699 |
| - Default DPCH Offset Value                     |                                      | Not Present                                             |                    | RBS3-1700 |
| - Mac-hs reset indicator                        |                                      | Not Present                                             |                    | RBS3-1701 |
| Downlink information common for all radio links | A4, A7, A8, A10                      |                                                         |                    | RBS3-1702 |
| - CHOICE DPCH info                              |                                      | Downlink DPCH info common for all RL                    | Rel-6              | RBS3-1703 |
| - Timing indication                             |                                      | Initialise                                              |                    | RBS3-1704 |
| - CFN-targetSFN frame offset                    |                                      | Not Present                                             | R99 and Rel-4 only | RBS3-1705 |
| - Downlink DPCH power control information       |                                      |                                                         |                    | RBS3-1706 |
| - CHOICE mode                                   |                                      | TDD                                                     |                    | RBS3-1707 |
| - TPC Step Size                                 |                                      | 1                                                       |                    | RBS3-1708 |
| - MAC-d HFN initial value                       |                                      | Not Present                                             |                    | RBS3-1709 |
| - CHOICE mode                                   |                                      | TDD                                                     |                    | RBS3-1710 |
| - CHOICE mode                                   |                                      | TDD                                                     |                    | RBS3-1711 |
| - CHOICE TDD option                             |                                      | 3.84 Mcps TDD                                           | Rel-4              | RBS3-1712 |
| - Default DPCH Offset Value                     |                                      | Not Present                                             |                    | RBS3-1713 |
| - Mac-hs reset indicator                        |                                      | Not Present                                             |                    | RBS3-1714 |
| Downlink information for each radio link list   | A1, A2, A3, A4, A7, A8, A9, A10, A11 | 1                                                       |                    | RBS3-1715 |
| - Downlink information for each radio link      |                                      |                                                         |                    | RBS3-1716 |
| - Choice mode                                   |                                      | TDD                                                     |                    | RBS3-1717 |
| - Primary CCPCH info                            |                                      |                                                         |                    | RBS3-1718 |
| - Choice mode                                   |                                      | TDD                                                     |                    | RBS3-1719 |
| - CHOICE TDD option                             |                                      | 3.84 Mcps TDD                                           |                    | RBS3-1720 |
| - CHOICE SyncCase                               |                                      | Sync Case 2                                             |                    | RBS3-1721 |
| - Timeslot                                      |                                      | 0                                                       |                    | RBS3-1722 |
| - Cell parameters ID                            |                                      | 10                                                      |                    | RBS3-1723 |
| - SCTD indicator                                |                                      | FALSE                                                   |                    | RBS3-1724 |
| - CHOICE DPCH info                              |                                      | Downlink DPCH info for each RL                          | Rel-6              | RBS3-1725 |
| - CHOICE mode                                   |                                      | TDD                                                     |                    | RBS3-1726 |
| - DL CCTrCH List                                |                                      | 1 CCTrCh                                                |                    | RBS3-1727 |
| - TFCS ID                                       |                                      | 1                                                       |                    | RBS3-1728 |
| - Activation time                               |                                      | Not Present                                             |                    | RBS3-1729 |
| - Duration                                      |                                      | Not Present                                             |                    | RBS3-1730 |
| - Common timeslot info                          |                                      |                                                         |                    | RBS3-1731 |
| - 2 <sup>nd</sup> interleaving mode             |                                      | Reference to clause 6.10 Parameter Set                  |                    | RBS3-1732 |
| - TFCI coding                                   |                                      | Reference to clause 6.10 Parameter Set                  |                    | RBS3-1733 |
| - Puncturing Limit                              |                                      | Reference to clause 6.10 Parameter Set                  |                    | RBS3-1734 |
| - Repetition Period                             |                                      | Reference to clause 6.10 Parameter Set                  |                    | RBS3-1735 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Condition               | Value/remark                                                                                                                                                          | Version            | Index     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------|
| <ul style="list-style-type: none"> <li>- Repetition Length</li> <li>- Downlink DPCH timeslots and codes</li> <li>- Individual timeslot info</li> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble shift and burst type</li> <li>- CHOICE TDD option</li> <li>- CHOICE Burst Type</li> <li>- Midamble Allocation Mode</li> <li>- Midamble configuration</li> <li>- CHOICE TDD option</li> <li>- First timeslot channelisation codes</li> <li>- CHOICE codes representation</li> <li>- First channelisation code</li> <li>- Last channelisation code</li> <li>- CHOICE more timeslots</li> <li>- UL CCTrCH TPC List</li> <li>- UL TPC TFCS Identity</li> <li>- TFCS ID</li> <li>- Shared channel indicator</li> <li>- DL CCTrCH List to Remove</li> <li>- SCCPCH information for FACH</li> <li>- E-AGCH Info</li> <li>- CHOICE E-HICH Information</li> <li>- CHOICE E-RGCH Information</li> </ul> | A5                      | Reference to clause 6.10 Parameter Set                                                                                                                                |                    | RBS3-1736 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                                                                                                                                       |                    | RBS3-1737 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | The number of a downlink timeslot that has unassigned codes.                                                                                                          |                    | RBS3-1738 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | TRUE                                                                                                                                                                  |                    | RBS3-1739 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | 3.84 Mcps                                                                                                                                                             |                    | RBS3-1740 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Reference to clause 6.10 Parameter Set                                                                                                                                |                    | RBS3-1741 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Default                                                                                                                                                               |                    | RBS3-1742 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Set Kcell to lowest possible value given the number of codes defined in clause 6.10 Parameter Set                                                                     |                    | RBS3-1743 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | 3.84 Mcps                                                                                                                                                             |                    | RBS3-1744 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                                                                                                                                       |                    | RBS3-1745 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                                                                                                                                       |                    | RBS3-1746 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                                                                                                                                       |                    | RBS3-1747 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Consecutive codes                                                                                                                                                     |                    | RBS3-1748 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6.10 Parameter Set.                                                   |                    | RBS3-1749 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | (j/SF) where j is the highest numbered code that is being assigned in the slot as specified in clause 6.10 Parameter Set.                                             |                    | RBS3-1750 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | The presence of this IE depends upon whether the requirements of clause 6.10 Parameter Set t could be met by the codes that have been assigned in the first timeslot. |                    | RBS3-1751 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | 1                                                                                                                                                                     |                    | RBS3-1752 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | 1                                                                                                                                                                     |                    | RBS3-1753 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | False                                                                                                                                                                 |                    | RBS3-1754 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Not Present                                                                                                                                                           |                    | RBS3-1755 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Not Present                                                                                                                                                           |                    | RBS3-1756 |
| Downlink information for each radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A6                      |                                                                                                                                                                       | R99 and Rel-4 only | RBS3-1757 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Not Present                                                                                                                                                           | Rel-6              | RBS3-1758 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Not Present                                                                                                                                                           | Rel-6              | RBS3-1759 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Not Present                                                                                                                                                           | Rel-6              | RBS3-1760 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                                                                                                                                       |                    | RBS3-1761 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                                                                                                                                       |                    | RBS3-1762 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | TDD                                                                                                                                                                   |                    | RBS3-1763 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                                                                                                                                       |                    | RBS3-1764 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | TDD                                                                                                                                                                   |                    | RBS3-1765 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | 3.84 Mcps TDD                                                                                                                                                         |                    | RBS3-1766 |
| Downlink information for each radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A6                      | Sync Case 2                                                                                                                                                           |                    | RBS3-1767 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | 0                                                                                                                                                                     |                    | RBS3-1768 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | 10                                                                                                                                                                    |                    | RBS3-1769 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | FALSE                                                                                                                                                                 |                    | RBS3-1770 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Not present                                                                                                                                                           | Rel-6              | RBS3-1771 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Not Present                                                                                                                                                           | Rel-6              | RBS3-1772 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Not Present                                                                                                                                                           | Rel-6              | RBS3-1773 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Not Present                                                                                                                                                           | Rel-6              | RBS3-1774 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | Not present                                                                                                                                                           |                    | RBS3-1775 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                                                                                                                                       |                    |           |
| Downlink information for each radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A12, A13, A14, A15, A16 |                                                                                                                                                                       | Rel-7              | RBS3-1776 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                                                                                                                                       |                    | RBS3-1777 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | TDD                                                                                                                                                                   |                    | RBS3-1778 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                                                                                                                                                                       |                    | RBS3-1779 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | TDD                                                                                                                                                                   |                    | RBS3-1780 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | 3.84 Mcps TDD                                                                                                                                                         |                    | RBS3-1781 |
| Downlink information for each radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         | Sync Case 2                                                                                                                                                           |                    | RBS3-1782 |

| Information Element                     | Condition                                                        | Value/remark                           | Version        | Index                               |
|-----------------------------------------|------------------------------------------------------------------|----------------------------------------|----------------|-------------------------------------|
| - Timeslot                              |                                                                  | 0                                      |                | RBS3-1783                           |
| - Cell parameters ID                    |                                                                  | 10                                     |                | RBS3-1784                           |
| - SCTD indicator                        |                                                                  | FALSE                                  |                | RBS3-1785                           |
| - CHOICE DPCH info                      |                                                                  | Not present                            |                | RBS3-1786                           |
| - E-AGCH Info                           |                                                                  | Present                                |                | RBS3-1787                           |
| - CHOICE mode                           |                                                                  | TDD                                    |                | RBS3-1788                           |
| - CHOICE TDD option                     |                                                                  | 3.84Mcps                               |                | RBS3-1789                           |
| - Long Term Grant Indicator             |                                                                  | FALSE                                  |                | RBS3-1790                           |
| - Length of TTRI field                  |                                                                  | Reference to clause 6.10 Parameter Set |                | RBS3-1791                           |
| - E-AGCH set configuration              |                                                                  | Reference to clause 6.10 Parameter Set |                | RBS3-1792                           |
| - TS number                             |                                                                  | Reference to clause 6.10 Parameter Set |                | RBS3-1793                           |
| - Channelisation code                   |                                                                  | Reference to clause 6.10 Parameter Set |                | RBS3-1794                           |
| - CHOICE Burst Type                     |                                                                  | Reference to clause 6.10 Parameter Set |                | RBS3-1795                           |
| - Midamble allocation                   |                                                                  | Reference to clause 6.10 Parameter Set |                | RBS3-1796                           |
| - E-AGCH BLER Target                    |                                                                  | -2                                     |                | RBS3-1797                           |
| - CHOICE mode                           |                                                                  | TDD                                    |                | RBS3-1798                           |
| - E-HICH info                           |                                                                  | Present                                |                | RBS3-1799                           |
| - CHOICE mode                           |                                                                  | TDD                                    |                | RBS3-1800                           |
| - CHOICE TDD option                     |                                                                  | 3.84Mcps                               |                | RBS3-1801                           |
| - N <sub>E-HICH</sub>                   |                                                                  | 4                                      |                | RBS3-1802                           |
| - TS Number                             |                                                                  | Reference to clause 6.10 Parameter Set |                | RBS3-1803                           |
| - Channelisation code                   |                                                                  | Reference to clause 6.10 Parameter Set |                | RBS3-1804                           |
| - Burst Type                            |                                                                  | Reference to clause 6.10 Parameter Set |                | RBS3-1805                           |
| - Midamble allocation mode              |                                                                  | Reference to clause 6.10 Parameter Set |                | RBS3-1806                           |
| MBMS PL Service Restriction Information | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A12, A13, A14, A15, A16 | Not Present                            | Rel-5<br>Rel-7 | RBS3-1807<br>RBS3-1808<br>RBS3-1809 |

| Condition | Explanation                                                                                                                                                                                                        | Version |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| A1        | This IE is needed for "Non speech to CELL_DCH from CELL_DCH in CS"                                                                                                                                                 |         |
| A2        | This IE is needed for "Speech to CELL_DCH from CELL_DCH in CS"                                                                                                                                                     |         |
| A3        | This IE is needed for "Packet to CELL_DCH from CELL_DCH in PS"                                                                                                                                                     |         |
| A4        | This IE is needed for "Packet to CELL_DCH from CELL_FACH in PS"                                                                                                                                                    |         |
| A5        | This IE is needed for "Packet to CELL_FACH from CELL_DCH in PS"                                                                                                                                                    |         |
| A6        | This IE is needed for "Packet to CELL_FACH from CELL_FACH in PS"                                                                                                                                                   |         |
| A7        | This IE is needed for "Non speech to CELL_DCH from CELL_FACH in CS"                                                                                                                                                |         |
| A8        | This IE is needed for "Speech to CELL_DCH from CELL_FACH in CS"                                                                                                                                                    |         |
| A9        | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS"                                        | Rel-5   |
| A10       | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_FACH in PS"                                          | Rel-5   |
| A11       | This IE is needed for "Packet RAB Setup after Speech RAB Setup in CELL_DCH"                                                                                                                                        |         |
| A12       | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using three multiplexing options (3/3) and SRBs mapped on DCH/DCH"                                                                                     | Rel-7   |
| A13       | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH"                                                                                      | Rel-7   |
| A14       | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH"                                                                                  | Rel-7   |
| A15       | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (two streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH"                            | Rel-7   |
| A16       | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (one conversational and one streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH" | Rel-7   |

Contents of RADIO BEARER SETUP message: AM or UM (1.28 Mcps TDD)

| Information Element | Condition                      | Value/remark | Version | Index    |
|---------------------|--------------------------------|--------------|---------|----------|
| Message Type        | A1, A2, A3, A4, A5, A6, A7, A8 |              |         | RBS1-001 |

| Information Element            | Condition                                  | Value/remark                                                                                                                                                       | Version | Index    |
|--------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
|                                | , A9, A10                                  |                                                                                                                                                                    | Rel-5   | RBS1-002 |
|                                | , A11, A12, A13, A14, A15, A16, 16a, A17,  |                                                                                                                                                                    | Rel-7   | RBS1-003 |
|                                | A18, A19, A20, A21, A22, A23, A24          |                                                                                                                                                                    | Rel-8   | RBS1-004 |
| RRC transaction identifier     |                                            | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBS1-005 |
| Integrity check info           |                                            |                                                                                                                                                                    |         | RBS1-006 |
| - message authentication code  |                                            | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | RBS1-007 |
| - RRC message sequence number  |                                            | SS provides the value of this IE, from its internal counter.                                                                                                       |         | RBS1-008 |
| Integrity protection mode info |                                            | Not Present                                                                                                                                                        |         | RBS1-009 |
| Ciphering mode info            |                                            | Not Present                                                                                                                                                        |         | RBS1-010 |
| Activation time                | A1, A2, A3, A7, A8                         | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |         | RBS1-011 |
|                                | , A9                                       |                                                                                                                                                                    | Rel-5   | RBS1-012 |
|                                | , A11, A12, A13, A14, A15, A16, A16a, A17, |                                                                                                                                                                    | Rel-7   | RBS1-013 |
|                                | A19, A20, A21, A22, A23, A24               |                                                                                                                                                                    | Rel-8   | RBS1-014 |
| Activation time                | A4, A5, A6                                 | Now                                                                                                                                                                |         | RBS1-015 |
|                                | , A10,                                     |                                                                                                                                                                    | Rel-5   | RBS1-016 |
|                                | A18                                        |                                                                                                                                                                    | Rel-8   | RBS1-017 |
| New U-RNTI                     | A1, A2, A3, A4, A5, A6, A7, A8             | Not Present                                                                                                                                                        |         | RBS1-018 |
|                                | , A9, A10                                  |                                                                                                                                                                    | Rel-5   | RBS1-019 |
|                                | , A11, A12, A13, A14, A15, A16, A16a, A17, |                                                                                                                                                                    | Rel-7   | RBS1-020 |
|                                | A18, A19, A20, A21, A22, A23, A24          |                                                                                                                                                                    | Rel-8   | RBS1-021 |
| New C-RNTI                     | A1, A2, A3, A4, A7, A8                     | Not Present                                                                                                                                                        |         | RBS1-022 |
|                                | , A9, A10                                  |                                                                                                                                                                    | Rel-5   | RBS1-023 |
|                                | , A11, A12, A13, A14, A15, A16, A16a, A17, |                                                                                                                                                                    | Rel-7   | RBS1-024 |
|                                | A18, A21, A22, A23, A24                    |                                                                                                                                                                    | Rel-8   | RBS1-025 |
| New C-RNTI                     | A5, A6                                     | '1010 1010 1010 1010'                                                                                                                                              |         | RBS1-026 |
| New DSCH-RNTI                  | A1, A2, A3, A4, A5, A6, A7, A8             | Not Present                                                                                                                                                        |         | RBS1-027 |
| New H-RNTI                     | A1, A2, A3, A4, A5, A6, A7, A8             | Not Present                                                                                                                                                        | Rel-5   | RBS1-028 |
|                                | , A24                                      |                                                                                                                                                                    | Rel-8   | RBS1-029 |

| Information Element                       | Condition                                         | Value/remark                                                                                                   | Version | Index     |
|-------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------|-----------|
| New H-RNTI                                | A9, A10                                           | '1010 1010 1010 1010'                                                                                          | Rel-5   | RBS1-030  |
|                                           | , A11, A12, A13, A14, A15, A16, A16a, A17,        |                                                                                                                | Rel-7   | RBS1-031  |
|                                           | A18, A19, A20, A21, A22, A23                      |                                                                                                                | Rel-8   | RBS1-032  |
| CHOICE <i>mode</i>                        |                                                   | TDD                                                                                                            | Rel-7   | RBS1-033  |
| - New E-RNTI                              | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A16, A17 | Not Present                                                                                                    | Rel-7   | RBS1-034  |
|                                           | , A24                                             |                                                                                                                | Rel-8   | RBS1-035  |
| - New E-RNTI                              | , A11, A12, A13, A14, A15                         | '1010 1010 1010 1010'                                                                                          | Rel-7   | RBS1-036  |
|                                           | , A18, A19, A20, A21, A22, A23                    |                                                                                                                | Rel-8   | RBS1-037  |
| RRC State indicator                       | A1, A2, A3, A4, A7, A8                            | CELL_DCH                                                                                                       |         | RBS1-038  |
|                                           | , A9, A10                                         |                                                                                                                | Rel-5   | RBS1-039  |
|                                           | , A11, A12, A13, A14, A15, A16, A16a, A17         |                                                                                                                | Rel-7   | RBS1-040  |
|                                           | A19, A20, A22, A23                                |                                                                                                                | Rel-8   | RBS1-041  |
| RRC State indicator                       | A5, A6                                            | CELL_FACH                                                                                                      |         | RBS1-042  |
|                                           | A18, A24                                          |                                                                                                                | Rel-8   | RBS1-043  |
| UTRAN DRX cycle length coefficient        | A1, A2, A3, A4, A5, A6, A7, A8                    | Not Present                                                                                                    |         | RBS1-044  |
|                                           | , A9, A10                                         |                                                                                                                | Rel-5   | RBS1-045  |
|                                           | , A11, A12, A13, A14, A15, A16, A16a, A17         |                                                                                                                | Rel-7   | RBS1-046  |
|                                           | A18, A19, A20, A21, A22, A23, A24                 |                                                                                                                | Rel-8   | RBS1-047  |
| CN information info                       |                                                   | Not Present                                                                                                    |         | RBS1-048  |
| URA identity                              |                                                   | Not Present                                                                                                    |         | RBS1-049  |
| RNC support for change of UE capability   |                                                   | Not Present                                                                                                    | Rel-7   | RBS1-049a |
| - Signalling RB information to setup list |                                                   | Not Present                                                                                                    |         | RBS1-050  |
| - RAB information for setup list          | A1, A7                                            |                                                                                                                |         | RBS1-051  |
| - RAB info                                |                                                   |                                                                                                                |         | RBS1-052  |
| - RAB identity                            |                                                   |                                                                                                                |         | RBS1-053  |
| - CHOICE RAB identity type                |                                                   | RAB identity (GSM-MAP)                                                                                         |         | RBS1-054  |
| - RAB identity                            |                                                   | 0000 0001B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS1-055  |
| - CN domain identity                      |                                                   | CS domain                                                                                                      |         | RBS1-056  |
| - NAS Synchronization Indicator           |                                                   | Not Present                                                                                                    |         | RBS1-057  |
| - Re-establishment timer                  |                                                   | useT314                                                                                                        |         | RBS1-058  |
| - RB information to setup list            |                                                   |                                                                                                                |         | RBS1-059  |
| - RB information to setup                 |                                                   |                                                                                                                |         | RBS1-060  |
| - RB identity                             |                                                   | 10                                                                                                             |         | RBS1-061  |
| - PDCP info                               |                                                   | Not Present                                                                                                    |         | RBS1-062  |
| - CHOICE RLC info type                    |                                                   | RLC info                                                                                                       |         | RBS1-063  |

| Information Element                        | Condition | Value/remark                                                                                                   | Version | Index    |
|--------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------|---------|----------|
| - CHOICE Uplink RLC mode                   |           | TM RLC                                                                                                         |         | RBS1-064 |
| - Transmission RLC discard                 |           | Not Present                                                                                                    |         | RBS1-065 |
| - Segmentation indication                  |           | FALSE                                                                                                          |         | RBS1-066 |
| - CHOICE Downlink RLC mode                 |           | TM RLC                                                                                                         |         | RBS1-067 |
| - Segmentation indication                  |           | FALSE                                                                                                          |         | RBS1-068 |
| - RB mapping info                          |           |                                                                                                                |         | RBS1-069 |
| - Information for each multiplexing option |           |                                                                                                                |         | RBS1-070 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                                                    |         | RBS1-071 |
| - Number of uplink RLC logical channels    |           | 1                                                                                                              |         | RBS1-072 |
| - Uplink transport channel type            |           | DCH                                                                                                            |         | RBS1-073 |
| - UL Transport channel identity            |           | 1                                                                                                              |         | RBS1-074 |
| - Logical channel identity                 |           | Not Present                                                                                                    |         | RBS1-075 |
| - CHOICE <i>RLC size list</i>              |           | Configured                                                                                                     |         | RBS1-076 |
| - MAC logical channel priority             |           | 8                                                                                                              |         | RBS1-077 |
| - Downlink RLC logical channel info        |           |                                                                                                                |         | RBS1-078 |
| - Number of downlink RLC logical channels  |           | 1                                                                                                              |         | RBS1-079 |
| - Downlink transport channel type          |           | DCH                                                                                                            |         | RBS1-080 |
| - DL DCH Transport channel identity        |           | 6                                                                                                              |         | RBS1-081 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                                                    |         | RBS1-082 |
| - Logical channel identity                 |           | Not Present                                                                                                    |         | RBS1-083 |
| RAB information to setup list              | A2, A8    |                                                                                                                |         | RBS1-084 |
| - RAB info                                 |           |                                                                                                                |         | RBS1-085 |
| - RAB identity                             |           |                                                                                                                |         | RBS1-086 |
| - CHOICE RAB identity type                 |           | RAB identity (GSM-MAP)                                                                                         |         | RBS1-087 |
| - RAB identity                             |           | 0000 0001B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS1-088 |
| - CN domain identity                       |           | CS domain                                                                                                      |         | RBS1-089 |
| - NAS Synchronization Indicator            |           | Not Present                                                                                                    |         | RBS1-090 |
| - Re-establishment timer                   |           | useT314                                                                                                        |         | RBS1-091 |
| - RB information to setup list             |           |                                                                                                                |         | RBS1-092 |
| - RB information to setup                  |           |                                                                                                                |         | RBS1-093 |
| - RB identity                              |           | 10                                                                                                             |         | RBS1-094 |
| - PDCP info                                |           | Not Present                                                                                                    |         | RBS1-095 |
| - CHOICE RLC info type                     |           | RLC info                                                                                                       |         | RBS1-096 |
| - CHOICE Uplink RLC mode                   |           | TM RLC                                                                                                         |         | RBS1-097 |
| - Transmission RLC discard                 |           | Not Present                                                                                                    |         | RBS1-098 |
| - Segmentation indication                  |           | FALSE                                                                                                          |         | RBS1-099 |
| - CHOICE Downlink RLC mode                 |           | TM RLC                                                                                                         |         | RBS1-100 |
| - Segmentation indication                  |           | FALSE                                                                                                          |         | RBS1-101 |
| - RB mapping info                          |           |                                                                                                                |         | RBS1-102 |
| - Information for each multiplexing option |           |                                                                                                                |         | RBS1-103 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                                                    |         | RBS1-104 |
| - Number of uplink RLC logical channels    |           | 1                                                                                                              |         | RBS1-105 |
| - Uplink transport channel type            |           | DCH                                                                                                            |         | RBS1-106 |
| - UL Transport channel identity            |           | 1                                                                                                              |         | RBS1-107 |
| - Logical channel identity                 |           | Not Present                                                                                                    |         | RBS1-108 |
| - CHOICE <i>RLC size list</i>              |           | Configured                                                                                                     |         | RBS1-109 |
| - MAC logical channel priority             |           | 6                                                                                                              |         | RBS1-110 |
| - Downlink RLC logical channel info        |           |                                                                                                                |         | RBS1-111 |
| - Number of downlink RLC logical channels  |           | 1                                                                                                              |         | RBS1-112 |
| - Downlink transport channel type          |           | DCH                                                                                                            |         | RBS1-113 |
| - DL DCH Transport channel identity        |           | 6                                                                                                              |         | RBS1-114 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                                                    |         | RBS1-115 |
| - Logical channel identity                 |           | Not Present                                                                                                    |         | RBS1-116 |
| - RB identity                              |           | 11                                                                                                             |         | RBS1-117 |
| - PDCP info                                |           | Not Present                                                                                                    |         | RBS1-118 |
| - CHOICE RLC info type                     |           | RLC info                                                                                                       |         | RBS1-119 |
| - CHOICE Uplink RLC mode                   |           | TM RLC                                                                                                         |         | RBS1-120 |
| - Transmission RLC discard                 |           | Not Present                                                                                                    |         | RBS1-121 |



| Information Element                        | Condition      | Value/remark                                                                                                   | Version | Index    |
|--------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------|---------|----------|
| - Segmentation indication                  |                | FALSE                                                                                                          |         | RBS1-122 |
| - CHOICE Downlink RLC mode                 |                | TM RLC                                                                                                         |         | RBS1-123 |
| - Segmentation indication                  |                | FALSE                                                                                                          |         | RBS1-124 |
| - RB mapping info                          |                |                                                                                                                |         | RBS1-125 |
| - Information for each multiplexing option |                |                                                                                                                |         | RBS1-126 |
| - RLC logical channel mapping indicator    |                | Not Present                                                                                                    |         | RBS1-127 |
| - Number of uplink RLC logical channels    |                | 1                                                                                                              |         | RBS1-128 |
| - Uplink transport channel type            |                | DCH                                                                                                            |         | RBS1-129 |
| - UL Transport channel identity            |                | 2                                                                                                              |         | RBS1-130 |
| - Logical channel identity                 |                | Not Present                                                                                                    |         | RBS1-131 |
| - CHOICE <i>RLC size list</i>              |                | Configured                                                                                                     |         | RBS1-132 |
| - MAC logical channel priority             |                | 6                                                                                                              |         | RBS1-133 |
| - Downlink RLC logical channel info        |                |                                                                                                                |         | RBS1-134 |
| - Number of downlink RLC logical channels  |                | 1                                                                                                              |         | RBS1-135 |
| - Downlink transport channel type          |                | DCH                                                                                                            |         | RBS1-136 |
| - DL DCH Transport channel identity        |                | 7                                                                                                              |         | RBS1-137 |
| - DL DSCH Transport channel identity       |                | Not Present                                                                                                    |         | RBS1-138 |
| - Logical channel identity                 |                | Not Present                                                                                                    |         | RBS1-139 |
| - RB identity                              |                | 12                                                                                                             |         | RBS1-140 |
| - PDCP info                                |                | Not Present                                                                                                    |         | RBS1-141 |
| - CHOICE RLC info type                     |                | RLC info                                                                                                       |         | RBS1-142 |
| - CHOICE Uplink RLC mode                   |                | TM RLC                                                                                                         |         | RBS1-143 |
| - Transmission RLC discard                 |                | Not Present                                                                                                    |         | RBS1-144 |
| - Segmentation indication                  |                | FALSE                                                                                                          |         | RBS1-145 |
| - CHOICE Downlink RLC mode                 |                | TM RLC                                                                                                         |         | RBS1-146 |
| - Segmentation indication                  |                | FALSE                                                                                                          |         | RBS1-147 |
| - RB mapping info                          |                |                                                                                                                |         | RBS1-148 |
| - Information for each multiplexing option |                |                                                                                                                |         | RBS1-149 |
| - RLC logical channel mapping indicator    |                | Not Present                                                                                                    |         | RBS1-150 |
| - Number of uplink RLC logical channels    |                | 1                                                                                                              |         | RBS1-151 |
| - Uplink transport channel type            |                | DCH                                                                                                            |         | RBS1-152 |
| - UL Transport channel identity            |                | 3                                                                                                              |         | RBS1-153 |
| - Logical channel identity                 |                | Not Present                                                                                                    |         | RBS1-154 |
| - CHOICE <i>RLC size list</i>              |                | Configured                                                                                                     |         | RBS1-155 |
| - MAC logical channel priority             |                | 7                                                                                                              |         | RBS1-156 |
| - Downlink RLC logical channel info        |                |                                                                                                                |         | RBS1-157 |
| - Number of downlink RLC logical channels  |                | 1                                                                                                              |         | RBS1-158 |
| - Downlink transport channel type          |                | DCH                                                                                                            |         | RBS1-159 |
| - DL DCH Transport channel identity        |                | 8                                                                                                              |         | RBS1-160 |
| - DL DSCH Transport channel identity       |                | Not Present                                                                                                    |         | RBS1-161 |
| - Logical channel identity                 |                | Not Present                                                                                                    |         | RBS1-162 |
| RAB information for setup list             | A3, A4, A5, A6 |                                                                                                                |         | RBS1-163 |
| - RAB info                                 |                |                                                                                                                |         | RBS1-164 |
| - RAB identity                             |                |                                                                                                                |         | RBS1-165 |
| - CHOICE RAB identity type                 |                | RAB identity (GSM-MAP)                                                                                         |         | RBS1-166 |
| - RAB identity                             |                | 0000 0101B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS1-167 |
| - CN domain identity                       |                | PS domain                                                                                                      |         | RBS1-168 |
| - NAS Synchronization Indicator            |                | Not Present                                                                                                    |         | RBS1-169 |
| - Re-establishment timer                   |                | useT315                                                                                                        |         | RBS1-170 |
| - RB information to setup list             |                |                                                                                                                |         | RBS1-171 |
| - RB information to setup                  |                |                                                                                                                |         | RBS1-172 |
| - RB identity                              |                | 20                                                                                                             |         | RBS1-173 |
| - PDCP info                                |                |                                                                                                                |         | RBS1-174 |
| - Support for lossless SRNS relocation     |                | FALSE                                                                                                          |         | RBS1-175 |
| - Max PDCP SN window size                  |                | Not present                                                                                                    |         | RBS1-176 |
| - PDCP PDU header                          |                | Not present                                                                                                    |         | RBS1-177 |
| - Header compression information           |                | Not present                                                                                                    |         | RBS1-178 |

| Information Element                        | Condition | Value/remark                                            | Version | Index    |
|--------------------------------------------|-----------|---------------------------------------------------------|---------|----------|
| - CHOICE RLC info type                     |           | RLC info                                                |         | RBS1-179 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                                                  |         | RBS1-180 |
| - Transmission RLC discard                 |           |                                                         |         | RBS1-181 |
| - CHOICE SDU Discard Mode                  |           | Max DAT retransmissions                                 |         | RBS1-182 |
| - MAX_DAT                                  |           | 4                                                       |         | RBS1-183 |
| - Timer_MRW                                |           | 100                                                     |         | RBS1-184 |
| - MaxMRW                                   |           | 4                                                       |         | RBS1-185 |
| - Transmission window size                 |           | 128                                                     |         | RBS1-186 |
| - Timer_RST                                |           | 500                                                     |         | RBS1-187 |
| - Max_RST                                  |           | 4                                                       |         | RBS1-188 |
| - Polling info                             |           |                                                         |         | RBS1-189 |
| - Timer_poll_prohibit                      |           | 200                                                     |         | RBS1-190 |
| - Timer_poll                               |           | 200                                                     |         | RBS1-191 |
| - Poll_PDU                                 |           | Not Present                                             |         | RBS1-192 |
| - Poll_SDU                                 |           | 1                                                       |         | RBS1-193 |
| - Last transmission PDU poll               |           | TRUE                                                    |         | RBS1-194 |
| - Last retransmission PDU poll             |           | TRUE                                                    |         | RBS1-195 |
| - Poll_Windows                             |           | 99                                                      |         | RBS1-196 |
| - Timer_poll_periodic                      |           | Not Present                                             |         | RBS1-197 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                                                  |         | RBS1-198 |
| - In-sequence delivery                     |           | TRUE                                                    |         | RBS1-199 |
| - Receiving window size                    |           | 128                                                     |         | RBS1-200 |
| - Downlink RLC status info                 |           |                                                         |         | RBS1-201 |
| - Timer_status_prohibit                    |           | 200                                                     |         | RBS1-202 |
| - Timer_EPC                                |           | 200                                                     |         | RBS1-203 |
| - Missing PDU indicator                    |           | TRUE                                                    |         | RBS1-204 |
| - Timer_STATUS_periodic                    |           | Not Present                                             |         | RBS1-205 |
| - RB mapping info                          |           |                                                         |         | RBS1-206 |
| - Information for each multiplexing option |           | 2 RBMuxOptions                                          |         | RBS1-207 |
| - RLC logical channel mapping indicator    |           | Not Present                                             |         | RBS1-208 |
| - Number of uplink RLC logical channels    |           | 1                                                       |         | RBS1-209 |
| - Uplink transport channel type            |           | DCH                                                     |         | RBS1-210 |
| - UL Transport channel identity            |           | 1                                                       |         | RBS1-211 |
| - Logical channel identity                 |           | Not Present                                             |         | RBS1-212 |
| - CHOICE RLC size list                     |           | Configured                                              |         | RBS1-213 |
| - MAC logical channel priority             |           | 8                                                       |         | RBS1-214 |
| - Downlink RLC logical channel info        |           |                                                         |         | RBS1-215 |
| - Number of downlink RLC logical channels  |           | 1                                                       |         | RBS1-216 |
| - Downlink transport channel type          |           | DCH                                                     |         | RBS1-217 |
| - DL DCH Transport channel identity        |           | 6                                                       |         | RBS1-218 |
| - DL DSCH Transport channel identity       |           | Not Present                                             |         | RBS1-219 |
| - Logical channel identity                 |           | Not Present                                             |         | RBS1-220 |
| - RLC logical channel mapping indicator    |           | Not Present                                             |         | RBS1-221 |
| - Number of uplink RLC logical channels    |           | 1                                                       |         | RBS1-222 |
| - Uplink transport channel type            |           | RACH                                                    |         | RBS1-223 |
| - UL Transport channel identity            |           | Not Present                                             |         | RBS1-224 |
| - Logical channel identity                 |           | 7                                                       |         | RBS1-225 |
| - CHOICE RLC size list                     |           | Explicit list                                           |         | RBS1-226 |
| - RLC size index                           |           | Reference to clause 6 Parameter Set                     |         | RBS1-227 |
| - MAC logical channel priority             |           | 8                                                       |         | RBS1-228 |
| - Downlink RLC logical channel info        |           |                                                         |         | RBS1-229 |
| - Number of downlink RLC logical channels  |           | 1                                                       |         | RBS1-230 |
| - Downlink transport channel type          |           | FACH                                                    |         | RBS1-231 |
| - DL DCH Transport channel identity        |           | Not Present                                             |         | RBS1-232 |
| - DL DSCH Transport channel identity       |           | Not Present                                             |         | RBS1-233 |
| - Logical channel identity                 |           | 8                                                       |         | RBS1-234 |
| - RAB information for setup                | A9        |                                                         | Rel-5   | RBS1-235 |
| - RAB info                                 |           | (high-speed AM DTCH for PS domain)                      |         | RBS1-236 |
| - RAB identity                             |           | 0000 0101B<br>The first/ leftmost bit of the bit string |         | RBS1-237 |

| Information Element                        | Condition | Value/remark                                           | Version | Index    |
|--------------------------------------------|-----------|--------------------------------------------------------|---------|----------|
|                                            |           | contains the most significant bit of the RAB identity. |         |          |
| - CN domain identity                       |           | PS domain                                              |         | RBS1-238 |
| - NAS Synchronization Indicator            |           | Not Present                                            |         | RBS1-239 |
| - Re-establishment timer                   |           | useT315                                                |         | RBS1-240 |
| - RB information to setup                  |           |                                                        |         | RBS1-241 |
| - RB identity                              |           | 25                                                     |         | RBS1-242 |
| - PDCP info                                |           |                                                        |         | RBS1-243 |
| - Support for lossless SRNS relocation     |           | FALSE                                                  |         | RBS1-244 |
| - Max PDCP SN window size                  |           | Not present                                            |         | RBS1-245 |
| - PDCP PDU header                          |           | Absent                                                 |         | RBS1-246 |
| - Header compression information           |           | Not present                                            |         | RBS1-247 |
| - CHOICE RLC info type                     |           | RLC info                                               |         | RBS1-248 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                                                 |         | RBS1-249 |
| - Transmission RLC discard                 |           |                                                        |         | RBS1-250 |
| - CHOICE SDU discard mode                  |           | No Discard                                             |         | RBS1-251 |
| - MAX_DAT                                  |           | 15                                                     |         | RBS1-252 |
| - Transmission window size                 |           | 128                                                    |         | RBS1-253 |
| - Timer_RST                                |           | 500                                                    |         | RBS1-254 |
| - Max_RST                                  |           | 4                                                      |         | RBS1-255 |
| - Polling info                             |           |                                                        |         | RBS1-256 |
| - Timer_poll_prohibit                      |           | 100                                                    |         | RBS1-257 |
| - Timer_poll                               |           | 100                                                    |         | RBS1-258 |
| - Poll_PDU                                 |           | Not Present                                            |         | RBS1-259 |
| - Poll_SDU                                 |           | 1                                                      |         | RBS1-260 |
| - Last transmission PDU poll               |           | TRUE                                                   |         | RBS1-261 |
| - Last retransmission PDU poll             |           | TRUE                                                   |         | RBS1-262 |
| - Poll Windows                             |           | 99                                                     |         | RBS1-263 |
| - Timer_poll_periodic                      |           | Not Present                                            |         | RBS1-264 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                                                 |         | RBS1-265 |
| - CHOICE Downlink RLC PDU Size             |           | Reference to clause 6 Parameter Set                    |         | RBS1-266 |
| - In-sequence delivery                     |           | TRUE                                                   |         | RBS1-267 |
| - Receiving window size                    |           | 768                                                    |         | RBS1-268 |
| - Downlink RLC status info                 |           |                                                        |         | RBS1-269 |
| - Timer_status_prohibit                    |           | 100                                                    |         | RBS1-270 |
| - Timer_EPC                                |           | Not Present                                            |         | RBS1-271 |
| - Missing PDU indicator                    |           | TRUE                                                   |         | RBS1-272 |
| - Timer_STATUS_periodic                    |           | Not Present                                            |         | RBS1-273 |
| - One sided RLC re-establishment           |           | FALSE                                                  |         | RBS1-274 |
| - RB mapping info                          |           |                                                        |         | RBS1-275 |
| - Information for each multiplexing option |           | 3 RBMuxOptions                                         |         | RBS1-276 |
| - RLC logical channel mapping indicator    |           | Not Present                                            |         | RBS1-277 |
| - Number of uplink RLC logical channels    |           | 1                                                      |         | RBS1-278 |
| - Uplink transport channel type            |           | DCH                                                    |         | RBS1-279 |
| - UL Transport channel identity            |           | 1                                                      |         | RBS1-280 |
| - Logical channel identity                 |           | Not Present                                            |         | RBS1-281 |
| - CHOICE RLC size list                     |           | Configured                                             |         | RBS1-282 |
| - MAC logical channel priority             |           | 8                                                      |         | RBS1-283 |
| - Downlink RLC logical channel info        |           |                                                        |         | RBS1-284 |
| - Number of downlink RLC logical channels  |           | 1                                                      |         | RBS1-285 |
| - Downlink transport channel type          |           | DCH                                                    |         | RBS1-286 |
| - DL DCH Transport channel identity        |           | 6                                                      |         | RBS1-287 |
| - DL DSCH Transport channel identity       |           | Not Present                                            |         | RBS1-288 |
| - DL HS-DSCH MAC-d flow identity           |           | Not Present                                            |         | RBS1-289 |
| - Logical channel identity                 |           | Not Present                                            |         | RBS1-290 |
| - RLC logical channel mapping indicator    |           | Not Present                                            |         | RBS1-291 |
| - Number of uplink RLC logical channels    |           | 1                                                      |         | RBS1-292 |
| - Uplink transport channel type            |           | DCH                                                    |         | RBS1-293 |
| - UL Transport channel identity            |           | 1                                                      |         | RBS1-294 |
| - Logical channel identity                 |           | Not Present                                            |         | RBS1-295 |
| - CHOICE RLC size list                     |           | Configured                                             |         | RBS1-296 |
| - MAC logical channel priority             |           | 8                                                      |         | RBS1-297 |

| Information Element                       | Condition | Value/remark                                                                                                   | Version | Index    |
|-------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------|---------|----------|
| - Downlink RLC logical channel info       |           |                                                                                                                |         | RBS1-298 |
| - Number of downlink RLC logical channels |           | 1                                                                                                              |         | RBS1-299 |
| - Downlink transport channel type         |           | HS-DSCH                                                                                                        |         | RBS1-300 |
| - DL DCH Transport channel identity       |           | Not Present                                                                                                    |         | RBS1-301 |
| - DL DSCH Transport channel identity      |           | Not Present                                                                                                    |         | RBS1-302 |
| - DL HS-DSCH MAC-d flow identity          |           | 0                                                                                                              |         | RBS1-303 |
| - Logical channel identity                |           | Not Present                                                                                                    |         | RBS1-304 |
| - RLC logical channel mapping indicator   |           | Not Present                                                                                                    |         | RBS1-305 |
| - Number of uplink RLC logical channels   |           | 1                                                                                                              |         | RBS1-306 |
| - Uplink transport channel type           |           | RACH                                                                                                           |         | RBS1-307 |
| - UL Transport channel identity           |           | Not Present                                                                                                    |         | RBS1-308 |
| - Logical channel identity                |           | 7                                                                                                              |         | RBS1-309 |
| - CHOICE RLC size list                    |           | Explicit list                                                                                                  |         | RBS1-310 |
| - RLC size index                          |           | Reference to clause 6 Parameter Set                                                                            |         | RBS1-311 |
| - MAC logical channel priority            |           | 8                                                                                                              |         | RBS1-312 |
| - Downlink RLC logical channel info       |           |                                                                                                                |         | RBS1-313 |
| - Number of downlink RLC logical channels |           | 1                                                                                                              |         | RBS1-314 |
| - Downlink transport channel type         |           | FACH                                                                                                           |         | RBS1-315 |
| - DL DCH Transport channel identity       |           | Not Present                                                                                                    |         | RBS1-316 |
| - DL DSCH Transport channel identity      |           | Not Present                                                                                                    |         | RBS1-317 |
| - Logical channel identity                |           | 7                                                                                                              |         | RBS1-318 |
| - RAB information for setup               | A10       |                                                                                                                | Rel-5   | RBS1-319 |
| - RAB info                                |           | (high-speed AM DTCH for PS domain)                                                                             |         | RBS1-320 |
| - RAB identity                            |           | 0000 0101B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS1-321 |
| - CN domain identity                      |           | PS domain                                                                                                      |         | RBS1-322 |
| - NAS Synchronization Indicator           |           | Not Present                                                                                                    |         | RBS1-323 |
| - Re-establishment timer                  |           | useT315                                                                                                        |         | RBS1-324 |
| - RB information to setup                 |           |                                                                                                                |         | RBS1-325 |
| - RB identity                             |           | 25                                                                                                             |         | RBS1-326 |
| - PDCP info                               |           |                                                                                                                |         | RBS1-327 |
| - Support for lossless SRNS relocation    |           | FALSE                                                                                                          |         | RBS1-328 |
| - Max PDCP SN window size                 |           | Not present                                                                                                    |         | RBS1-329 |
| - PDCP PDU header                         |           | Absent                                                                                                         |         | RBS1-330 |
| - Header compression information          |           | Not present                                                                                                    |         | RBS1-331 |
| - CHOICE RLC info type                    |           | RLC info                                                                                                       |         | RBS1-332 |
| - CHOICE Uplink RLC mode                  |           | AM RLC                                                                                                         |         | RBS1-333 |
| - Transmission RLC discard                |           |                                                                                                                |         | RBS1-334 |
| - CHOICE SDU discard mode                 |           | No Discard                                                                                                     |         | RBS1-335 |
| - MAX_DAT                                 |           | 15                                                                                                             |         | RBS1-336 |
| - Transmission window size                |           | 128                                                                                                            |         | RBS1-337 |
| - Timer_RST                               |           | 500                                                                                                            |         | RBS1-338 |
| - Max_RST                                 |           | 4                                                                                                              |         | RBS1-339 |
| - Polling info                            |           |                                                                                                                |         | RBS1-340 |
| - Timer_poll_prohibit                     |           | 100                                                                                                            |         | RBS1-341 |
| - Timer_poll                              |           | 100                                                                                                            |         | RBS1-342 |
| - Poll_PDU                                |           | Not Present                                                                                                    |         | RBS1-343 |
| - Poll_SDU                                |           | 1                                                                                                              |         | RBS1-344 |
| - Last transmission PDU poll              |           | TRUE                                                                                                           |         | RBS1-345 |
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| - Poll_Windows                            |           | 99                                                                                                             |         | RBS1-347 |
| - Timer_poll_periodic                     |           | Not Present                                                                                                    |         | RBS1-348 |
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| - Downlink RLC status info                |           |                                                                                                                |         | RBS1-353 |
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| - Timer_EPC                               |           | Not Present                                                                                                    |         | RBS1-355 |

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| - Missing PDU indicator                    |           | TRUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         | RBS1-356 |
| - Timer_STATUS_periodic                    |           | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         | RBS1-357 |
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| - RLC logical channel mapping indicator    |           | Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         | RBS1-361 |
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| - Uplink transport channel type            |           | DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         | RBS1-363 |
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| - Logical channel identity                 |           | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         | RBS1-365 |
| - CHOICE RLC size list                     |           | Configured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         | RBS1-366 |
| - MAC logical channel priority             |           | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         | RBS1-367 |
| - Downlink RLC logical channel info        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | RBS1-368 |
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| - Downlink transport channel type          |           | HS-DSCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         | RBS1-370 |
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| - DL DSCH Transport channel identity       |           | Not present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         | RBS1-372 |
| - DL HS-DSCH MAC-d flow identity           |           | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         | RBS1-373 |
| - Logical channel identity                 |           | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         | RBS1-374 |
| - RAB information for setup                | A11       | (high-speed AM DTCH for PS domain)<br>0000 0101B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.<br>PS domain<br>Not Present<br>useT315<br><br>25<br><br>FALSE<br>Not present<br>Absent<br>Not present<br>RLC info<br>AM RLC<br><br>No Discard<br>15<br>256<br>500<br>4<br><br>100<br>100<br>Not Present<br>1<br>TRUE<br>TRUE<br>99<br>Not Present<br>AM RLC<br>Reference to clause 6 Parameter Set<br>TRUE<br>768<br><br>100<br>Not Present<br>TRUE<br>Not Present<br>FALSE<br><br>3 RBMuxOptions | Rel-7   | RBS1-375 |
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| - RAB identity                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | RBS1-377 |
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| - PDCP PDU header                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | RBS1-386 |
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| <div><div><div><div><div>- RLC logical channel mapping indicator</div><div>- Number of uplink RLC logical channels</div><div>- Uplink transport channel type</div><div>- UL Transport channel identity</div><div>- Logical channel identity</div><div>- CHOICE RLC size list</div><div>- MAC logical channel priority</div><div>- Downlink RLC logical channel info</div><div>- Number of downlink RLC logical channels</div></div></div><div><div>- Downlink transport channel type</div><div>- DL DCH Transport channel identity</div><div>- DL DSCH Transport channel identity</div><div>- DL HS-DSCH MAC-d flow identity</div><div>- Logical channel identity</div></div><div><div>- RLC logical channel mapping indicator</div><div>- Number of uplink RLC logical channels</div><div>- Uplink transport channel type</div><div>- Logical channel identity</div><div>- E-DCH MAC-d flow identity</div><div>- CHOICE RLC PDU size</div></div></div><div><div>- DDI</div><div>- RLC PDU size list</div><div><div>- RLC PDU size</div><div>- CHOICE RLC PDU size</div></div></div><div><div><div>- Length indicator size</div><div>- Minimum UL RLC PDU size</div><div>- Largest UL RLC PDU size</div></div><div>- Include in scheduling info</div><div>- MAC logical channel priority</div><div>- Downlink RLC logical channel info</div><div>- Number of downlink RLC logical channels</div><div><div>- Downlink transport channel type</div><div>- DL DCH Transport channel identity</div><div>- DL DSCH Transport channel identity</div><div>- DL HS-DSCH MAC-d flow identity</div><div>- Logical channel identity</div></div><div>- RLC logical channel mapping indicator</div><div>- Number of uplink RLC logical channels</div><div>- Uplink transport channel type</div><div>- UL Transport channel identity</div><div>- Logical channel identity</div><div>- CHOICE RLC size list</div><div><div>- RLC size index</div><div>- MAC logical channel priority</div></div><div>- Downlink RLC logical channel info</div><div>- Number of downlink RLC logical channels</div></div><div><div><div>- Downlink transport channel type</div><div>- DL DCH Transport channel identity</div><div>- DL DSCH Transport channel identity</div></div></div></div> <div><div><div>- RAB information for setup</div><div><div>- RAB info</div><div>- RAB identity</div></div><div><div>- CN domain identity</div><div>- NAS Synchronization Indicator</div><div>- Re-establishment timer</div><div>- RB information to setup</div><div>- RB identity</div></div></div></div> <div><div><div>A12, A13, A14, A15</div><div>A19, A20</div></div></div> <div><div>Not Present</div><div>1</div><div>DCH</div><div>1</div><div>Not Present</div><div>Configured</div><div>8</div><div>1</div><div>DCH</div><div>6</div><div>Not Present</div><div>Not Present</div><div>Not Present</div><div>Not Present</div><div>1</div><div>E-DCH</div><div>7</div><div>2</div><div>Fixed size</div><div>5</div><div>1 RLC PDU size</div><div>336 bits</div><div>Flexible size</div><div>Not present</div><div>See clause 6.11</div><div>See clause 6.11</div><div>TRUE</div><div>8</div><div>1</div><div>HS-DSCH</div><div>Not Present</div><div>Not Present</div><div>0</div><div>Not Present</div><div>Not Present</div><div>1</div><div>RACH</div><div>Not Present</div><div>7</div><div>Explicit list</div><div>Reference to clause 6 Parameter Set</div><div>8</div><div>1</div><div>FACH</div><div>Not Present</div><div>Not Present</div></div> <div><div>Rel-8</div><div>Rel-8</div></div> <div><div>RBS1-417</div><div>RBS1-418</div><div>RBS1-419</div><div>RBS1-420</div><div>RBS1-421</div><div>RBS1-422</div><div>RBS1-423</div><div>RBS1-424</div><div>RBS1-425</div><div>RBS1-426</div><div>RBS1-427</div><div>RBS1-428</div><div>RBS1-429</div><div>RBS1-430</div><div>RBS1-431</div><div>RBS1-432</div><div>RBS1-433</div><div>RBS1-434</div><div>RBS1-435</div><div>RBS1-436</div><div>RBS1-437</div><div>RBS1-438</div><div>RBS1-439</div><div>RBS1-440</div><div>RBS1-441</div><div>RBS1-442</div><div>RBS1-443</div><div>RBS1-444</div><div>RBS1-445</div><div>RBS1-446</div><div>RBS1-447</div><div>RBS1-448</div><div>RBS1-449</div><div>RBS1-450</div><div>RBS1-451</div><div>RBS1-452</div><div>RBS1-453</div><div>RBS1-454</div><div>RBS1-455</div><div>RBS1-456</div><div>RBS1-457</div><div>RBS1-458</div><div>RBS1-459</div><div>RBS1-460</div><div>RBS1-461</div><div>RBS1-462</div><div>RBS1-463</div><div>RBS1-464</div><div>RBS1-465</div><div>RBS1-466</div><div>RBS1-467</div><div>RBS1-468</div><div>RBS1-469</div><div>RBS1-470</div><div>RBS1-471</div><div>RBS1-472</div><div>RBS1-473</div><div>RBS1-474</div></div> |           |              |         |       |

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| <ul style="list-style-type: none"> <li>- PDCP info</li> <li>- Support for lossless SRNS relocation</li> <li>- Max PDCP SN window size</li> <li>- PDCP PDU header</li> <li>- Header compression information</li> <li>- CHOICE RLC info type</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- CHOICE SDU discard mode</li> <li>- MAX_DAT</li> <li>- Transmission window size</li> <li>- Timer_RST</li> <li>- Max_RST</li> <li>- Polling info</li> <li>- Timer_poll_prohibit</li> <li>- Timer_poll</li> <li>- Poll_PDU</li> <li>- Poll_SDU</li> <li>- Last transmission PDU poll</li> <li>- Last retransmission PDU poll</li> <li>- Poll_Windows</li> <li>- Timer_poll_periodic</li> <li>- CHOICE Downlink RLC mode</li> <li>- CHOICE Downlink RLC PDU Size</li> <li>- In-sequence delivery</li> <li>- Receiving window size</li> <li>- Downlink RLC status info</li> <li>- Timer_status_prohibit</li> <li>- Timer_EPC</li> <li>- Missing PDU indicator</li> <li>- Timer_STATUS_periodic</li> <li>- One sided RLC re-establishment</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size</li> </ul> | MAC-I-FIXED | FALSE                                                                                            | Rel-8   | RBS1-475 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | TRUE                                                                                             |         | RBS1-503 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | Not Present                                                                                      |         | RBS1-504 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | FALSE                                                                                            |         | RBS1-505 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                  |         | RBS1-506 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 1 RBmuxOption                                                                                    |         | RBS1-507 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | Not Present                                                                                      |         | RBS1-508 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 1                                                                                                |         | RBS1-509 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | E-DCH                                                                                            |         | RBS1-510 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 7                                                                                                |         | RBS1-511 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 2                                                                                                |         | RBS1-512 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | Fixed size                                                                                       |         | RBS1-513 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                  |         | RBS1-514 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 5                                                                                                | Rel-8   | RBS1-515 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 1 RLC PDU size                                                                                   |         | RBS1-516 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 336 bits                                                                                         |         | RBS1-517 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | Flexible size                                                                                    |         | RBS1-518 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | Not present                                                                                      |         | RBS1-519 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | See clause 6.11                                                                                  |         | RBS1-520 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | See clause 6.11                                                                                  |         | RBS1-521 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | TRUE                                                                                             |         | RBS1-522 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 8                                                                                                |         | RBS1-523 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 1                                                                                                |         | RBS1-524 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                  |         | RBS1-525 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | HS-DSCH                                                                                          |         | RBS1-526 |
| channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MAC-I-FLEX  | Not present                                                                                      | Rel-7   | RBS1-527 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | Not present                                                                                      |         | RBS1-528 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | Not present                                                                                      |         | RBS1-529 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 0                                                                                                |         | RBS1-530 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | Not Present                                                                                      |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                  |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                  |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                  |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                  |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                                                                                  |         |          |
| <ul style="list-style-type: none"> <li>- RAB information for setup</li> <li>- RAB info</li> <li>- RAB identity</li> <li>- CN domain identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A14         | (second high-speed AM DTCH for PS domain)                                                        | Rel-7   | RBS1-531 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 0000 0110B                                                                                       |         | RBS1-532 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS1-533 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | PS domain                                                                                        |         | RBS1-534 |

| Information Element                        | Condition   | Value/remark                           | Version | Index    |
|--------------------------------------------|-------------|----------------------------------------|---------|----------|
| - NAS Synchronization Indicator            |             | Not Present                            |         | RBS1-535 |
| - Re-establishment timer                   |             | useT315                                |         | RBS1-536 |
| - RB information to setup                  |             |                                        |         | RBS1-537 |
| - RB identity                              |             | 17                                     |         | RBS1-538 |
| - PDCP info                                |             |                                        |         | RBS1-539 |
| - Support for lossless SRNS relocation     |             | FALSE                                  |         | RBS1-540 |
| - Max PDCP SN window size                  |             | Not present                            |         | RBS1-541 |
| - PDCP PDU header                          |             | Absent                                 |         | RBS1-542 |
| - Header compression information           |             | Not present                            |         | RBS1-543 |
| - CHOICE RLC info type                     |             | RLC info                               |         | RBS1-544 |
| - CHOICE Uplink RLC mode                   |             | AM RLC                                 |         | RBS1-545 |
| - Transmission RLC discard                 |             |                                        |         | RBS1-546 |
| - CHOICE SDU discard mode                  |             | No Discard                             |         | RBS1-547 |
| - MAX_DAT                                  |             | 15                                     |         | RBS1-548 |
| - Transmission window size                 |             | 256                                    |         | RBS1-549 |
| - Timer_RST                                |             | 500                                    |         | RBS1-550 |
| - Max_RST                                  |             | 4                                      |         | RBS1-551 |
| - Polling info                             |             |                                        |         | RBS1-552 |
| - Timer_poll_prohibit                      |             | 100                                    |         | RBS1-553 |
| - Timer_poll                               |             | 100                                    |         | RBS1-554 |
| - Poll_PDU                                 |             | Not Present                            |         | RBS1-555 |
| - Poll_SDU                                 |             | 1                                      |         | RBS1-556 |
| - Last transmission PDU poll               |             | TRUE                                   |         | RBS1-557 |
| - Last retransmission PDU poll             |             | TRUE                                   |         | RBS1-558 |
| - Poll_Windows                             |             | 99                                     |         | RBS1-559 |
| - Timer_poll_periodic                      |             | Not Present                            |         | RBS1-560 |
| - CHOICE Downlink RLC mode                 |             | AM RLC                                 |         | RBS1-561 |
| - CHOICE Downlink RLC PDU Size             |             | Reference to clause 6 Parameter Set    |         | RBS1-562 |
| - In-sequence delivery                     |             | TRUE                                   |         | RBS1-563 |
| - Receiving window size                    |             | 768                                    |         | RBS1-564 |
| - Downlink RLC status info                 |             |                                        |         | RBS1-565 |
| - Timer_status_prohibit                    |             | 100                                    |         | RBS1-566 |
| - Timer_EPC                                |             | Not Present                            |         | RBS1-567 |
| - Missing PDU indicator                    |             | TRUE                                   |         | RBS1-568 |
| - Timer_STATUS_periodic                    |             | Not Present                            |         | RBS1-569 |
| - One sided RLC re-establishment           |             | FALSE                                  |         | RBS1-570 |
| - RB mapping info                          |             |                                        |         | RBS1-571 |
| - Information for each multiplexing option |             | 1 RBMuxOption                          |         | RBS1-572 |
| - RLC logical channel mapping indicator    |             | Not Present                            |         | RBS1-573 |
| - Number of uplink RLC logical channels    |             | 1                                      |         | RBS1-574 |
| - Uplink transport channel type            |             | E-DCH                                  |         | RBS1-575 |
| - Logical channel identity                 |             | 8                                      |         | RBS1-576 |
| - E-DCH MAC-d flow identity                |             | 3                                      |         | RBS1-577 |
| - CHOICE RLC PDU size                      | MAC-I-FIXED | Fixed size                             | Rel-8   | RBS1-578 |
| - DDI                                      |             | 6                                      |         | RBS1-579 |
| - RLC PDU size list                        |             | 1 RLC PDU size                         |         | RBS1-580 |
| - RLC PDU size                             |             | 336 bits                               |         | RBS1-581 |
| - CHOICE RLC PDU size                      | MAC-I-FLEX  | Flexible size                          | Rel-8   | RBS1-582 |
| - Length indicator size                    |             | Not present                            |         | RBS1-583 |
| - Minimum UL RLC PDU size                  |             | See clause 6.11                        |         | RBS1-584 |
| - Largest UL RLC PDU size                  |             | See clause 6.11                        |         | RBS1-585 |
| - Include in scheduling info               |             | TRUE                                   |         | RBS1-586 |
| - MAC logical channel priority             |             | 8                                      |         | RBS1-587 |
| - Downlink RLC logical channel info        |             |                                        |         | RBS1-588 |
| - Number of downlink RLC logical channels  |             | 1                                      |         | RBS1-589 |
| - Downlink transport channel type          |             | HS-DSCH                                |         | RBS1-590 |
| - DL DCH Transport channel identity        |             | Not present                            |         | RBS1-591 |
| - DL DSCH Transport channel identity       |             | Not present                            |         | RBS1-592 |
| - DL HS-DSCH MAC-d flow identity           |             | 2                                      |         | RBS1-593 |
| - Logical channel identity                 |             | Not Present                            |         | RBS1-594 |
| - RAB information for setup                | A15         |                                        | Rel-7   | RBS1-595 |
| - RAB info                                 |             | (Conversational UM DTCH for PS domain) |         | RBS1-596 |
| - RAB identity                             |             | 0000 0110B                             |         | RBS1-597 |



| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Condition   | Value/remark                                                                                                   | Version | Index    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- CN domain identity</li> <li>- NAS Synchronization Indicator</li> <li>- Re-establishment timer</li> <li>- RB information to setup</li> <li>- RB identity</li> <li>- PDCP info</li> <li>- Support for lossless SRNS relocation</li> <li>- Max PDCP SN window size</li> <li>- PDCP PDU header</li> <li>- Header compression information</li> <li>- CHOICE RLC info type</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- CHOICE Downlink RLC mode</li> <li>- DL UM RLC LI size</li> <li>- DL Reception Window Size</li> <li>- One sided RLC re-establishment</li> <li>- Alternative E-bit interpretation</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size</li> </ul> | MAC-I-FIXED | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.               | Rel-8   | RBS1-598 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | PS domain                                                                                                      |         | RBS1-599 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Not Present                                                                                                    |         | RBS1-600 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | useT314                                                                                                        |         | RBS1-601 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 27                                                                                                             |         | RBS1-602 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | FALSE                                                                                                          |         | RBS1-603 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Not present                                                                                                    |         | RBS1-604 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Absent                                                                                                         |         | RBS1-605 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Not present                                                                                                    |         | RBS1-606 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | RLC info                                                                                                       |         | RBS1-607 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | UM RLC                                                                                                         |         | RBS1-608 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Not present                                                                                                    |         | RBS1-609 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | UM RLC                                                                                                         |         | RBS1-610 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 7                                                                                                              |         | RBS1-611 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 32                                                                                                             |         | RBS1-612 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | FALSE                                                                                                          |         | RBS1-613 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Not present                                                                                                    |         | RBS1-614 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 1 RBmuxOption                                                                                                  |         | RBS1-615 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Not Present                                                                                                    |         | RBS1-616 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 1                                                                                                              |         | RBS1-617 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MAC-I-FLEX  | E-DCH                                                                                                          |         | RBS1-618 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 9                                                                                                              |         | RBS1-619 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 4                                                                                                              |         | RBS1-620 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Fixed size                                                                                                     |         | RBS1-621 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 7                                                                                                              |         | RBS1-622 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 12 RLC PDU sizes                                                                                               |         | RBS1-623 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 96 bits                                                                                                        |         | RBS1-624 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 112 bits                                                                                                       |         | RBS1-625 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 144 bits                                                                                                       |         | RBS1-626 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 160 bits                                                                                                       |         | RBS1-627 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 176 bits                                                                                                       |         | RBS1-628 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 192 bits                                                                                                       |         | RBS1-629 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 208 bits                                                                                                       |         | RBS1-630 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 224 bits                                                                                                       |         | RBS1-631 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 288 bits                                                                                                       |         | RBS1-632 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 296 bits                                                                                                       |         | RBS1-633 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 312 bits                                                                                                       |         | RBS1-634 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 336 bits                                                                                                       |         | RBS1-635 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Flexible size                                                                                                  |         | RBS1-636 |
| <ul style="list-style-type: none"> <li>- DDI</li> <li>- RLC PDU size list</li> <li>- RLC PDU size</li> <li>- RLC PDU size</li> <li>- RLC PDU size</li> <li>- RLC PDU size</li> <li>- RLC PDU size</li> <li>- RLC PDU size</li> <li>- RLC PDU size</li> <li>- RLC PDU size</li> <li>- RLC PDU size</li> <li>- RLC PDU size</li> <li>- RLC PDU size</li> <li>- RLC PDU size</li> <li>- CHOICE RLC PDU size</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MAC-I-FLEX  | Not present                                                                                                    | Rel-8   | RBS1-637 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | See clause 6.11                                                                                                |         | RBS1-638 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | See clause 6.11                                                                                                |         | RBS1-639 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | TRUE                                                                                                           |         | RBS1-640 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 8                                                                                                              |         | RBS1-641 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 1                                                                                                              |         | RBS1-642 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | HS-DSCH                                                                                                        |         | RBS1-643 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Not present                                                                                                    |         | RBS1-644 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Not present                                                                                                    |         | RBS1-645 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 3                                                                                                              |         | RBS1-646 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | Not Present                                                                                                    |         | RBS1-647 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                |         | RBS1-648 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                |         | RBS1-649 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                |         | RBS1-650 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                                                                                                                |         | RBS1-651 |
| - RAB information for setup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A16,<br>A21 |                                                                                                                | Rel-7   | RBS1-652 |
| - RAB info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | (high-speed AM DTCH for PS domain)                                                                             | Rel-8   | RBS1-653 |
| - RAB identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | 0000 0101B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS1-654 |

| Information Element                        | Condition | Value/remark                                                                    | Version | Index    |
|--------------------------------------------|-----------|---------------------------------------------------------------------------------|---------|----------|
| - CN domain identity                       |           | PS domain                                                                       |         | RBS1-655 |
| - NAS Synchronization Indicator            |           | Not Present                                                                     |         | RBS1-656 |
| - Re-establishment timer                   |           | useT315                                                                         |         | RBS1-657 |
| - RB information to setup                  |           |                                                                                 |         | RBS1-658 |
| - RB identity                              |           | 25                                                                              |         | RBS1-659 |
| - PDCP info                                |           |                                                                                 |         | RBS1-660 |
| - Support for lossless SRNS relocation     |           | FALSE                                                                           |         | RBS1-661 |
| - Max PDCP SN window size                  |           | Not present                                                                     |         | RBS1-662 |
| - PDCP PDU header                          |           | Absent                                                                          |         | RBS1-663 |
| - Header compression information           |           | Not present                                                                     |         | RBS1-664 |
| - CHOICE RLC info type                     |           | RLC info                                                                        |         | RBS1-665 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                                                                          |         | RBS1-666 |
| - Transmission RLC discard                 |           |                                                                                 |         | RBS1-667 |
| - CHOICE SDU discard mode                  |           | No Discard                                                                      |         | RBS1-668 |
| - MAX_DAT                                  |           | 15                                                                              |         | RBS1-669 |
| - Transmission window size                 |           | 128                                                                             |         | RBS1-670 |
| - Timer_RST                                |           | 500                                                                             |         | RBS1-671 |
| - Max_RST                                  |           | 4                                                                               |         | RBS1-672 |
| - Polling info                             |           |                                                                                 |         | RBS1-673 |
| - Timer_poll_prohibit                      |           | 100                                                                             |         | RBS1-674 |
| - Timer_poll                               |           | 100                                                                             |         | RBS1-675 |
| - Poll_PDU                                 |           | Not Present                                                                     |         | RBS1-676 |
| - Poll_SDU                                 |           | 1                                                                               |         | RBS1-677 |
| - Last transmission PDU poll               |           | TRUE                                                                            |         | RBS1-678 |
| - Last retransmission PDU poll             |           | TRUE                                                                            |         | RBS1-679 |
| - Poll_Windows                             |           | 99                                                                              |         | RBS1-680 |
| - Timer_poll_periodic                      |           | Not Present                                                                     |         | RBS1-681 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                                                                          |         | RBS1-682 |
| - CHOICE Downlink RLC PDU Size             |           | Reference to clause 6 Parameter Set                                             |         | RBS1-683 |
| - Length indicator size                    |           | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" |         | RBS1-684 |
| - In-sequence delivery                     |           | TRUE                                                                            |         | RBS1-685 |
| - Receiving window size                    |           | 768                                                                             |         | RBS1-686 |
| - Downlink RLC status info                 |           |                                                                                 |         | RBS1-687 |
| - Timer_status_prohibit                    |           | 100                                                                             |         | RBS1-688 |
| - Timer_EPC                                |           | Not Present                                                                     |         | RBS1-689 |
| - Missing PDU indicator                    |           | TRUE                                                                            |         | RBS1-690 |
| - Timer_STATUS_periodic                    |           | Not Present                                                                     |         | RBS1-691 |
| - One sided RLC re-establishment           |           | FALSE                                                                           |         | RBS1-692 |
| - Alternative E-bit interpretation         |           | Not present                                                                     |         | RBS1-693 |
| - Use special value of HE field            |           | TRUE                                                                            |         | RBS1-694 |
| - RB mapping info                          |           |                                                                                 |         | RBS1-695 |
| - Information for each multiplexing option |           | 1 RBMuxOption                                                                   |         | RBS1-696 |
| - RLC logical channel mapping indicator    |           | Not present                                                                     |         | RBS1-697 |
| - Number of uplink RLC logical channels    |           | 1                                                                               |         | RBS1-698 |
| - Uplink transport channel type            |           | DCH                                                                             |         | RBS1-699 |
| - UL Transport channel identity            |           | 1                                                                               |         | RBS1-700 |
| - Logical channel identity                 |           | Not Present                                                                     |         | RBS1-701 |
| - CHOICE RLC size list                     |           | Configured                                                                      |         | RBS1-702 |
| - MAC logical channel priority             |           | 8                                                                               |         | RBS1-703 |
| - Downlink RLC logical channel info        |           |                                                                                 |         | RBS1-704 |
| - Number of downlink RLC logical channels  |           | 1                                                                               |         | RBS1-705 |
| - Downlink transport channel type          |           | HS-DSCH                                                                         |         | RBS1-706 |
| - DL DCH Transport channel identity        |           | Not present                                                                     |         | RBS1-707 |
| - DL DSCH Transport channel identity       |           | Not present                                                                     |         | RBS1-708 |
| - CHOICE DL_MAC_header_type                |           | MAC-ehs                                                                         |         | RBS1-709 |
| - DL HS-DSCH MAC-ehs Queue Id              |           | 0                                                                               |         | RBS1-710 |
| - Logical channel identity                 |           | 7                                                                               |         | RBS1-711 |
| - RAB information for setup                | A16a      |                                                                                 | Rel-7   | RBS1-712 |
| - RAB info                                 |           | (high-speed AM DTCH for PS domain)                                              |         | RBS1-713 |
| - RAB identity                             |           | 0000 0101B<br>The first/ leftmost bit of the bit string                         |         | RBS1-714 |

| Information Element                        | Condition   | Value/remark                                                                    | Version | Index    |
|--------------------------------------------|-------------|---------------------------------------------------------------------------------|---------|----------|
|                                            |             | contains the most significant bit of the RAB identity.                          |         |          |
| - CN domain identity                       |             | PS domain                                                                       |         | RBS1-715 |
| - NAS Synchronization Indicator            |             | Not Present                                                                     |         | RBS1-716 |
| - Re-establishment timer                   |             | useT315                                                                         |         | RBS1-717 |
| - RB information to setup                  |             |                                                                                 |         | RBS1-718 |
| - RB identity                              |             | 25                                                                              |         | RBS1-719 |
| - PDCP info                                |             |                                                                                 |         | RBS1-720 |
| - Support for lossless SRNS relocation     |             | FALSE                                                                           |         | RBS1-721 |
| - Max PDCP SN window size                  |             | Not present                                                                     |         | RBS1-722 |
| - PDCP PDU header                          |             | Absent                                                                          |         | RBS1-723 |
| - Header compression information           |             | Not present                                                                     |         | RBS1-724 |
| - CHOICE RLC info type                     |             | RLC info                                                                        |         | RBS1-725 |
| - CHOICE Uplink RLC mode                   |             | AM RLC                                                                          |         | RBS1-726 |
| - Transmission RLC discard                 |             |                                                                                 |         | RBS1-727 |
| - CHOICE SDU discard mode                  |             | No Discard                                                                      |         | RBS1-728 |
| - MAX DAT                                  |             | 15                                                                              |         | RBS1-729 |
| - Transmission window size                 |             | 256                                                                             |         | RBS1-730 |
| - Timer RST                                |             | 500                                                                             |         | RBS1-731 |
| - Max RST                                  |             | 4                                                                               |         | RBS1-732 |
| - Polling info                             |             |                                                                                 |         | RBS1-733 |
| - Timer poll prohibit                      |             | 100                                                                             |         | RBS1-734 |
| - Timer poll                               |             | 100                                                                             |         | RBS1-735 |
| - Poll PDU                                 |             | Not Present                                                                     |         | RBS1-736 |
| - Poll SDU                                 |             | 1                                                                               |         | RBS1-737 |
| - Last transmission PDU poll               |             | TRUE                                                                            |         | RBS1-738 |
| - Last retransmission PDU poll             |             | TRUE                                                                            |         | RBS1-739 |
| - Poll Windows                             |             | 99                                                                              |         | RBS1-740 |
| - Timer poll periodic                      |             | Not Present                                                                     |         | RBS1-741 |
| - CHOICE Downlink RLC mode                 |             | AM RLC                                                                          |         | RBS1-742 |
| - CHOICE Downlink RLC PDU Size             |             | Reference to clause 6 Parameter Set                                             |         | RBS1-743 |
| - Length indicator size                    |             | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" |         | RBS1-744 |
| - In-sequence delivery                     |             | TRUE                                                                            |         | RBS1-745 |
| - Receiving window size                    |             | 768                                                                             |         | RBS1-746 |
| - Downlink RLC status info                 |             |                                                                                 |         | RBS1-747 |
| - Timer status prohibit                    |             | 100                                                                             |         | RBS1-748 |
| - Timer EPC                                |             | Not Present                                                                     |         | RBS1-749 |
| - Missing PDU indicator                    |             | TRUE                                                                            |         | RBS1-750 |
| - Timer STATUS periodic                    |             | Not Present                                                                     |         | RBS1-751 |
| - One sided RLC re-establishment           |             | FALSE                                                                           |         | RBS1-752 |
| - Alternative E-bit interpretation         |             | Not present                                                                     |         | RBS1-753 |
| - Use special value of HE field            |             | TRUE                                                                            |         | RBS1-754 |
| - RB mapping info                          |             |                                                                                 |         | RBS1-755 |
| - Information for each multiplexing option |             | 1 RBmuxOption                                                                   |         | RBS1-756 |
| - RLC logical channel mapping indicator    |             | Not Present                                                                     |         | RBS1-757 |
| - Number of uplink RLC logical channels    |             | 1                                                                               |         | RBS1-758 |
| - Uplink transport channel type            |             | E-DCH                                                                           |         | RBS1-759 |
| - Logical channel identity                 |             | 7                                                                               |         | RBS1-760 |
| - E-DCH MAC-d flow identity                |             | 2                                                                               |         | RBS1-761 |
| - CHOICE RLC PDU size                      | MAC-I-FIXED | Fixed size                                                                      | Rel-8   | RBS1-762 |
| - DDI                                      |             | 5                                                                               |         | RBS1-763 |
| - RLC PDU size list                        |             | 1 RLC PDU size                                                                  |         | RBS1-764 |
| - RLC PDU size                             |             | 336 bits                                                                        |         | RBS1-765 |
| - CHOICE RLC PDU size                      | MAC-I-FLEX  | Flexible size                                                                   | Rel-8   | RBS1-766 |
| - Length indicator size                    |             | - 15 bit                                                                        |         | RBS1-767 |
| - Minimum UL RLC PDU size                  |             | See clause 6.10                                                                 |         | RBS1-768 |
| - Largest UL RLC PDU size                  |             | See clause 6.10                                                                 |         | RBS1-769 |
| - Include in scheduling info               |             | TRUE                                                                            |         | RBS1-770 |
| - MAC logical channel priority             |             | 8                                                                               |         | RBS1-771 |
| - Downlink RLC logical channel info        |             |                                                                                 |         | RBS1-772 |
| - Number of downlink RLC logical           |             | 1                                                                               |         | RBS1-773 |

| Information Element                        | Condition | Value/remark                                                                                                   | Version | Index    |
|--------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------|---------|----------|
| channels                                   |           |                                                                                                                |         |          |
| - Downlink transport channel type          |           | HS-DSCH                                                                                                        |         | RBS1-774 |
| - DL DCH Transport channel identity        |           | Not present                                                                                                    |         | RBS1-775 |
| - DL DSCH Transport channel identity       |           | Not present                                                                                                    |         | RBS1-776 |
| - CHOICE DL MAC header type                |           | MAC-ehs                                                                                                        |         | RBS1-777 |
| - DL HS-DSCH MAC-ehs Queue Id              |           | 0                                                                                                              |         | RBS1-778 |
| - Logical channel identity                 |           | 7                                                                                                              |         | RBS1-779 |
| - RAB information for setup                | A17       |                                                                                                                | Rel-7   | RBS1-780 |
| - RAB info                                 |           | (high-speed UM DTCH for PS domain)                                                                             |         | RBS1-781 |
| - RAB identity                             |           | 0000 0101B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS1-782 |
| - CN domain identity                       |           | PS domain                                                                                                      |         | RBS1-783 |
| - NAS Synchronization Indicator            |           | Not Present                                                                                                    |         | RBS1-784 |
| - Re-establishment timer                   |           | useT315                                                                                                        |         | RBS1-785 |
| - RB information to setup                  |           |                                                                                                                |         | RBS1-786 |
| - RB identity                              |           | 25                                                                                                             |         | RBS1-787 |
| - PDCP info                                |           |                                                                                                                |         | RBS1-788 |
| - Support for lossless SRNS relocation     |           | FALSE                                                                                                          |         | RBS1-789 |
| - Max PDCP SN window size                  |           | Not present                                                                                                    |         | RBS1-790 |
| - PDCP PDU header                          |           | Absent                                                                                                         |         | RBS1-791 |
| - Header compression information           |           | Not present                                                                                                    |         | RBS1-792 |
| - CHOICE RLC info type                     |           | RLC info                                                                                                       |         | RBS1-793 |
| - CHOICE Uplink RLC mode                   |           | UM RLC                                                                                                         |         | RBS1-794 |
| - Transmission RLC discard                 |           | Not present                                                                                                    |         | RBS1-795 |
| - CHOICE Downlink RLC mode                 |           | UM RLC                                                                                                         |         | RBS1-796 |
| - DL UM RLC LI size                        |           | 7                                                                                                              |         | RBS1-797 |
| - DL Reception Window Size                 |           | Not present                                                                                                    |         | RBS1-798 |
| - One sided RLC re-establishment           |           | FALSE                                                                                                          |         | RBS1-799 |
| - Alternative E-bit interpretation         |           | TRUE                                                                                                           |         | RBS1-800 |
| - Use special value of HE field            |           | Not present                                                                                                    |         | RBS1-801 |
| - RB mapping info                          |           |                                                                                                                |         | RBS1-802 |
| - Information for each multiplexing option |           | 1 RBmuxOption                                                                                                  |         | RBS1-803 |
| - RLC logical channel mapping indicator    |           | Not present                                                                                                    |         | RBS1-804 |
| - Number of uplink RLC logical channels    |           | 1                                                                                                              |         | RBS1-805 |
| - Uplink transport channel type            |           | DCH                                                                                                            |         | RBS1-806 |
| - UL Transport channel identity            |           | 1                                                                                                              |         | RBS1-807 |
| - Logical channel identity                 |           | Not Present                                                                                                    |         | RBS1-808 |
| - CHOICE RLC size list                     |           | Configured                                                                                                     |         | RBS1-809 |
| - MAC logical channel priority             |           | 8                                                                                                              |         | RBS1-810 |
| - Downlink RLC logical channel info        |           |                                                                                                                |         | RBS1-811 |
| - Number of downlink RLC logical channels  |           | 1                                                                                                              |         | RBS1-812 |
| channels                                   |           |                                                                                                                |         |          |
| - Downlink transport channel type          |           | HS-DSCH                                                                                                        |         | RBS1-813 |
| - DL DCH Transport channel identity        |           | Not present                                                                                                    |         | RBS1-814 |
| - DL DSCH Transport channel identity       |           | Not present                                                                                                    |         | RBS1-815 |
| - CHOICE DL MAC header type                |           | MAC-ehs                                                                                                        |         | RBS1-816 |
| - DL HS-DSCH MAC-ehs Queue Id              |           | 0                                                                                                              |         | RBS1-817 |
| - Logical channel identity                 |           | 7                                                                                                              |         | RBS1-818 |
| - RAB information for setup                | A18       |                                                                                                                | Rel-8   | RBS1-819 |
| - RAB info                                 |           | (high-speed AM DTCH for PS domain)                                                                             |         | RBS1-820 |
| - RAB identity                             |           | 0000 0101B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS1-821 |
| - CN domain identity                       |           | PS domain                                                                                                      |         | RBS1-822 |
| - NAS Synchronization Indicator            |           | Not Present                                                                                                    |         | RBS1-823 |
| - Re-establishment timer                   |           | useT315                                                                                                        |         | RBS1-824 |
| - RB information to setup                  |           |                                                                                                                |         | RBS1-825 |
| - RB identity                              |           | 25                                                                                                             |         | RBS1-826 |
| - PDCP info                                |           |                                                                                                                |         | RBS1-827 |
| - Support for lossless SRNS relocation     |           | FALSE                                                                                                          |         | RBS1-828 |

| Information Element                        | Condition   | Value/remark                                                                    | Version | Index    |
|--------------------------------------------|-------------|---------------------------------------------------------------------------------|---------|----------|
| - Max PDCP SN window size                  |             | Not present                                                                     |         | RBS1-829 |
| - PDCP PDU header                          |             | Absent                                                                          |         | RBS1-830 |
| - Header compression information           |             | Not present                                                                     |         | RBS1-831 |
| - CHOICE RLC info type                     |             | RLC info                                                                        |         | RBS1-832 |
| - CHOICE Uplink RLC mode                   |             | AM RLC                                                                          |         | RBS1-833 |
| - Transmission RLC discard                 |             |                                                                                 |         | RBS1-834 |
| - CHOICE SDU discard mode                  |             | No Discard                                                                      |         | RBS1-835 |
| - MAX_DAT                                  |             | 15                                                                              |         | RBS1-836 |
| - Transmission window size                 |             | 128                                                                             |         | RBS1-837 |
| - Timer_RST                                |             | 500                                                                             |         | RBS1-838 |
| - Max_RST                                  |             | 4                                                                               |         | RBS1-839 |
| - Polling info                             |             |                                                                                 |         | RBS1-840 |
| - Timer_poll_prohibit                      |             | 100                                                                             |         | RBS1-841 |
| - Timer_poll                               |             | 100                                                                             |         | RBS1-842 |
| - Poll_PDU                                 |             | Not Present                                                                     |         | RBS1-843 |
| - Poll_SDU                                 |             | 1                                                                               |         | RBS1-844 |
| - Last transmission PDU poll               |             | TRUE                                                                            |         | RBS1-845 |
| - Last retransmission PDU poll             |             | TRUE                                                                            |         | RBS1-846 |
| - Poll_Windows                             |             | 99                                                                              |         | RBS1-847 |
| - Timer_poll_periodic                      |             | Not Present                                                                     |         | RBS1-848 |
| - CHOICE Downlink RLC mode                 |             | AM RLC                                                                          |         | RBS1-849 |
| - CHOICE Downlink RLC PDU Size             |             | Reference to clause 6 Parameter Set                                             |         | RBS1-850 |
| - Length indicator size                    |             | This IE is present and set to "7" if Downlink RLC PDU Size is set to "Flexible" |         | RBS1-851 |
| - In-sequence delivery                     |             | TRUE                                                                            |         | RBS1-852 |
| - Receiving window size                    |             | 768                                                                             |         | RBS1-853 |
| - Downlink RLC status info                 |             |                                                                                 |         | RBS1-854 |
| - Timer_status_prohibit                    |             | 100                                                                             |         | RBS1-855 |
| - Timer_EPC                                |             | Not Present                                                                     |         | RBS1-856 |
| - Missing PDU indicator                    |             | TRUE                                                                            |         | RBS1-857 |
| - Timer_STATUS_periodic                    |             | Not Present                                                                     |         | RBS1-858 |
| - One sided RLC re-establishment           |             | FALSE                                                                           |         | RBS1-859 |
| - Alternative E-bit interpretation         |             | Not present                                                                     |         | RBS1-860 |
| - Use special value of HE field            |             | TRUE                                                                            |         | RBS1-861 |
| - RB mapping info                          |             |                                                                                 |         | RBS1-862 |
| - Information for each multiplexing option |             | 1 RBMuxOption                                                                   |         | RBS1-863 |
| - RLC logical channel mapping indicator    |             | Not present                                                                     |         | RBS1-864 |
| - Number of uplink RLC logical channels    |             | 1                                                                               |         | RBS1-865 |
| - Uplink transport channel type            |             | E-DCH                                                                           |         | RBS1-866 |
| - Logical channel identity                 |             | 9                                                                               |         | RBS1-867 |
| - E-DCH MAC-d flow identity                |             | 4                                                                               |         | RBS1-868 |
| - CHOICE RLC PDU size                      | MAC-I-FIXED | Fixed size                                                                      | Rel-8   | RBS1-869 |
| - DDI                                      |             | 7                                                                               |         | RBS1-870 |
| - RLC PDU size list                        |             | 12 RLC PDU sizes                                                                |         | RBS1-871 |
| - RLC PDU size                             |             | 96 bits                                                                         |         | RBS1-872 |
| - RLC PDU size                             |             | 112 bits                                                                        |         | RBS1-873 |
| - RLC PDU size                             |             | 144 bits                                                                        |         | RBS1-874 |
| - RLC PDU size                             |             | 160 bits                                                                        |         | RBS1-875 |
| - RLC PDU size                             |             | 176 bits                                                                        |         | RBS1-876 |
| - RLC PDU size                             |             | 192 bits                                                                        |         | RBS1-877 |
| - RLC PDU size                             |             | 208 bits                                                                        |         | RBS1-878 |
| - RLC PDU size                             |             | 224 bits                                                                        |         | RBS1-879 |
| - RLC PDU size                             |             | 288 bits                                                                        |         | RBS1-880 |
| - RLC PDU size                             |             | 296 bits                                                                        |         | RBS1-881 |
| - RLC PDU size                             |             | 312 bits                                                                        |         | RBS1-882 |
| - RLC PDU size                             |             | 336 bits                                                                        |         | RBS1-883 |
| - CHOICE RLC PDU size                      | MAC-I-FLEX  | Flexible size                                                                   | Rel-8   | RBS1-884 |
| - Length indicator size                    |             | Not present                                                                     |         | RBS1-885 |
| - Minimum UL RLC PDU size                  |             | See clause 6.11                                                                 |         | RBS1-886 |
| - Largest UL RLC PDU size                  |             | See clause 6.11                                                                 |         | RBS1-887 |
| - Include in scheduling info               |             | TRUE                                                                            |         | RBS1-888 |

| Information Element                        | Condition | Value/remark                                                                                     | Version | Index    |
|--------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|----------|
| - MAC logical channel priority             |           | 8                                                                                                |         | RBS1-889 |
| - Downlink RLC logical channel info        |           |                                                                                                  |         | RBS1-890 |
| - Number of downlink RLC logical channels  |           | 1                                                                                                |         | RBS1-891 |
| - Downlink transport channel type          |           | HS-DSCH                                                                                          |         | RBS1-892 |
| - DL DCH Transport channel identity        |           | Not present                                                                                      |         | RBS1-893 |
| - DL DSCH Transport channel identity       |           | Not present                                                                                      |         | RBS1-894 |
| - CHOICE <i>DL MAC header type</i>         |           | MAC-ehs                                                                                          |         | RBS1-895 |
| - DL HS-DSCH MAC-ehs Queue Id              |           | 0                                                                                                |         | RBS1-896 |
| - Logical channel identity                 |           | 7                                                                                                |         | RBS1-897 |
| - RAB information for setup                | A22       | (first UM DTCH for PS domain)                                                                    | Rel-8   | RBS1-898 |
| - RAB info                                 |           | 0000 0101B                                                                                       |         | RBS1-899 |
| - RAB identity                             |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS1-900 |
| - CN domain identity                       |           | PS domain                                                                                        |         | RBS1-901 |
| - NAS Synchronization Indicator            |           | Not Present                                                                                      |         | RBS1-902 |
| - Re-establishment timer                   |           | useT315                                                                                          |         | RBS1-903 |
| - RB information to setup                  |           |                                                                                                  |         | RBS1-904 |
| - RB identity                              |           | 26                                                                                               |         | RBS1-905 |
| - PDCP info                                |           |                                                                                                  |         | RBS1-906 |
| - Support for lossless SRNS relocation     |           | FALSE                                                                                            |         | RBS1-907 |
| - Max PDCP SN window size                  |           | Not present                                                                                      |         | RBS1-908 |
| - PDCP PDU header                          |           | Absent                                                                                           |         | RBS1-909 |
| - Header compression information           |           | Not present                                                                                      |         | RBS1-910 |
| - CHOICE RLC info type                     |           | RLC info                                                                                         |         | RBS1-911 |
| - CHOICE Uplink RLC mode                   |           | UM RLC                                                                                           |         | RBS1-912 |
| - Transmission RLC discard                 |           | Not present                                                                                      |         | RBS1-913 |
| - CHOICE Downlink RLC mode                 |           | UM RLC                                                                                           |         | RBS1-914 |
| - DL UM RLC LI size                        |           | 7                                                                                                |         | RBS1-915 |
| - DL Reception Window Size                 |           | Not present                                                                                      |         | RBS1-916 |
| - Alternative E-bit interpretation         |           | TRUE                                                                                             |         | RBS1-917 |
| - One sided RLC re-establishment           |           | FALSE                                                                                            |         | RBS1-918 |
| - RB mapping info                          |           |                                                                                                  |         | RBS1-919 |
| - Information for each multiplexing option |           | 1 RBMuxOption                                                                                    |         | RBS1-920 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                                      |         | RBS1-921 |
| - Number of uplink RLC logical channels    |           | 1                                                                                                |         | RBS1-922 |
| - Uplink transport channel type            |           | E-DCH                                                                                            |         | RBS1-923 |
| - Logical channel identity                 |           | 7                                                                                                |         | RBS1-924 |
| - E-DCH MAC-d flow identity                |           | 2                                                                                                |         | RBS1-925 |
| - CHOICE RLC PDU size                      |           | Flexible size                                                                                    |         | RBS1-926 |
| - Length indicator size                    |           | Not present                                                                                      |         | RBS1-927 |
| - Minimum UL RLC PDU size                  |           | See clause 6.10                                                                                  |         | RBS1-928 |
| - Largest UL RLC PDU size                  |           | See clause 6.10                                                                                  |         | RBS1-929 |
| - Include in scheduling info               |           | TRUE                                                                                             |         | RBS1-930 |
| - MAC logical channel priority             |           | 8                                                                                                |         | RBS1-931 |
| - Downlink RLC logical channel info        |           |                                                                                                  |         | RBS1-932 |
| - Number of downlink RLC logical channels  |           | 1                                                                                                |         | RBS1-933 |
| - Downlink transport channel type          |           | HS-DSCH                                                                                          |         | RBS1-934 |
| - DL DCH Transport channel identity        |           | Not present                                                                                      |         | RBS1-935 |
| - DL DSCH Transport channel identity       |           | Not present                                                                                      |         | RBS1-936 |
| - CHOICE <i>DL MAC header type</i>         |           | MAC-ehs                                                                                          |         | RBS1-937 |
| - DL HS-DSCH MAC-ehs Queue Id              |           | 2                                                                                                |         | RBS1-938 |
| - Logical channel identity                 |           | 7                                                                                                |         | RBS1-939 |
| - RAB information for setup                | A22       | (second high-speed UM DTCH for PS domain)                                                        | Rel-8   | RBS1-940 |
| - RAB info                                 |           | 0000 0110B                                                                                       |         | RBS1-941 |
| - RAB identity                             |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS1-942 |
| - CN domain identity                       |           | PS domain                                                                                        |         | RBS1-943 |
| - NAS Synchronization Indicator            |           | Not Present                                                                                      |         | RBS1-944 |
| - Re-establishment timer                   |           | useT315                                                                                          |         | RBS1-945 |
| - RB information to setup                  |           |                                                                                                  |         | RBS1-946 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Condition | Value/remark                                                                                     | Version | Index     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|-----------|
| <ul style="list-style-type: none"> <li>- RB identity</li> <li>- PDCP info</li> <li>- Support for lossless SRNS relocation</li> <li>- Max PDCP SN window size</li> <li>- PDCP PDU header</li> <li>- Header compression information</li> <li>- CHOICE RLC info type</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- CHOICE Downlink RLC mode</li> <li>- DL UM RLC LI size</li> <li>- DL Reception Window Size</li> <li>- Alternative E-bit interpretation</li> <li>- One sided RLC re-establishment</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size</li> <li>- Length indicator size</li> <li>- Minimum UL RLC PDU size</li> <li>- Largest UL RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of downlink RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i></li> <li>- DL HS-DSCH MAC-ehs Queue Id</li> <li>- Logical channel identity</li> </ul> |           | 27                                                                                               |         | RBS1-947  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                  |         | RBS1-948  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | FALSE                                                                                            |         | RBS1-949  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not present                                                                                      |         | RBS1-950  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Absent                                                                                           |         | RBS1-951  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not present                                                                                      |         | RBS1-952  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | RLC info                                                                                         |         | RBS1-953  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | UM RLC                                                                                           |         | RBS1-954  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not present                                                                                      |         | RBS1-955  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | UM RLC                                                                                           |         | RBS1-956  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 7                                                                                                |         | RBS1-957  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not present                                                                                      |         | RBS1-958  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | TRUE                                                                                             |         | RBS1-959  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | FALSE                                                                                            |         | RBS1-960  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                  |         | RBS1-961  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 1 RBMuxOption                                                                                    |         | RBS1-962  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not Present                                                                                      |         | RBS1-963  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 1                                                                                                |         | RBS1-964  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | E-DCH                                                                                            |         | RBS1-965  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 8                                                                                                |         | RBS1-966  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 3                                                                                                |         | RBS1-967  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Flexible size                                                                                    |         | RBS1-968  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not present                                                                                      |         | RBS1-969  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | See clause 6.10                                                                                  |         | RBS1-970  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | See clause 6.10                                                                                  |         | RBS1-971  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | TRUE                                                                                             |         | RBS1-972  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 8                                                                                                |         | RBS1-973  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                  |         | RBS1-974  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 1                                                                                                |         | RBS1-975  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | HS-DSCH                                                                                          |         | RBS1-976  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not present                                                                                      |         | RBS1-977  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not present                                                                                      |         | RBS1-978  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | MAC-ehs                                                                                          |         | RBS1-979  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 3                                                                                                |         | RBS1-980  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 8                                                                                                |         | RBS1-981  |
| <ul style="list-style-type: none"> <li>- RAB information for setup</li> <li>- RAB info</li> <li>- RAB identity</li> <li>- CN domain identity</li> <li>- NAS Synchronization Indicator</li> <li>- Re-establishment timer</li> <li>- RB information to setup</li> <li>- RB identity</li> <li>- PDCP info</li> <li>- Support for lossless SRNS relocation</li> <li>- Max PDCP SN window size</li> <li>- PDCP PDU header</li> <li>- Header compression information</li> <li>- CHOICE RLC info type</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- CHOICE Downlink RLC mode</li> <li>- DL UM RLC LI size</li> <li>- DL Reception Window Size</li> <li>- Alternative E-bit interpretation</li> <li>- One sided RLC re-establishment</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                          | A22       | (third high-speed UM DTCH for PS domain)                                                         | Rel-8   | RBS1-982  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 0000 0111B                                                                                       |         | RBS1-983  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS1-984  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | PS domain                                                                                        |         | RBS1-985  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not Present                                                                                      |         | RBS1-986  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | useT315                                                                                          |         | RBS1-987  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                  |         | RBS1-988  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 21                                                                                               |         | RBS1-989  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                  |         | RBS1-990  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | FALSE                                                                                            |         | RBS1-991  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not present                                                                                      |         | RBS1-992  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Absent                                                                                           |         | RBS1-993  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not present                                                                                      |         | RBS1-994  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | RLC info                                                                                         |         | RBS1-995  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | UM RLC                                                                                           |         | RBS1-996  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not present                                                                                      |         | RBS1-997  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | UM RLC                                                                                           |         | RBS1-998  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 7                                                                                                |         | RBS1-999  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not present                                                                                      |         | RBS1-1000 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | TRUE                                                                                             |         | RBS1-1001 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | FALSE                                                                                            |         | RBS1-1002 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                  |         | RBS1-1003 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 1 RBMuxOption                                                                                    |         | RBS1-1004 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not Present                                                                                      |         | RBS1-1005 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 1                                                                                                |         | RBS1-1006 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | E-DCH                                                                                            |         | RBS1-1007 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 9                                                                                                |         | RBS1-1008 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition | Value/remark                                                                                     | Version | Index     |
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| <ul style="list-style-type: none"> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size</li> <li>- Length indicator size</li> <li>- Minimum UL RLC PDU size</li> <li>- Largest UL RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of downlink RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i></li> <li>- DL HS-DSCH MAC-ehs Queue Id</li> <li>- Logical channel identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | 4                                                                                                |         | RBS1-1009 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Flexible size                                                                                    |         | RBS1-1010 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                                                                                      |         | RBS1-1011 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | See clause 6.10                                                                                  |         | RBS1-1012 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | See clause 6.10                                                                                  |         | RBS1-1013 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | TRUE                                                                                             |         | RBS1-1014 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 8                                                                                                |         | RBS1-1015 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                  |         | RBS1-1016 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                                                                                |         | RBS1-1017 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | HS-DSCH                                                                                          |         | RBS1-1018 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                                                                                      |         | RBS1-1019 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                                                                                      |         | RBS1-1020 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | MAC-ehs                                                                                          |         | RBS1-1021 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 4                                                                                                |         | RBS1-1022 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 9                                                                                                |         | RBS1-1023 |
| <ul style="list-style-type: none"> <li>- RAB information for setup</li> <li>- RAB info</li> <li>- RAB identity</li> <li>- CN domain identity</li> <li>- NAS Synchronization Indicator</li> <li>- Re-establishment timer</li> <li>- RB information to setup</li> <li>- RB identity</li> <li>- PDCP info</li> <li>- Support for lossless SRNS relocation</li> <li>- Max PDCP SN window size</li> <li>- PDCP PDU header</li> <li>- Header compression information</li> <li>- CHOICE RLC info type</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- CHOICE Downlink RLC mode</li> <li>- DL UM RLC LI size</li> <li>- DL Reception Window Size</li> <li>- One sided RLC re-establishment</li> <li>- Alternative E-bit interpretation</li> <li>- Use special value of HE field</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size</li> <li>- Length indicator size</li> <li>- Minimum UL RLC PDU size</li> <li>- Largest UL RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of downlink RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i></li> <li>- DL HS-DSCH MAC-ehs Queue Id</li> <li>- Logical channel identity</li> </ul> | A23       | (high-speed UM DTCH for PS domain)                                                               | Rel-8   | RBS1-1024 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                  |         | RBS1-1025 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 0000 0101B                                                                                       |         | RBS1-1026 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | PS domain                                                                                        |         | RBS1-1027 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                                                                                      |         | RBS1-1028 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | useT315                                                                                          |         | RBS1-1029 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                  |         | RBS1-1030 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 25                                                                                               |         | RBS1-1031 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                  |         | RBS1-1032 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | FALSE                                                                                            |         | RBS1-1033 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                                                                                      |         | RBS1-1034 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Absent                                                                                           |         | RBS1-1035 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                                                                                      |         | RBS1-1036 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | RLC info                                                                                         |         | RBS1-1037 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | UM RLC                                                                                           |         | RBS1-1038 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                                                                                      |         | RBS1-1039 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | UM RLC                                                                                           |         | RBS1-1040 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 15                                                                                               |         | RBS1-1041 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                                                                                      |         | RBS1-1042 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | FALSE                                                                                            |         | RBS1-1043 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | TRUE                                                                                             |         | RBS1-1044 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                                                                                      |         | RBS1-1045 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                  |         | RBS1-1046 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1 RBmuxOption                                                                                    |         | RBS1-1047 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                                                                                      |         | RBS1-1048 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                                                                                |         | RBS1-1049 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | E-DCH                                                                                            |         | RBS1-1050 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 7                                                                                                |         | RBS1-1051 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 2                                                                                                |         | RBS1-1052 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Flexible size                                                                                    |         | RBS1-1053 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                                                                                      |         | RBS1-1054 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | See clause 6.10                                                                                  |         | RBS1-1055 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | See clause 6.10                                                                                  |         | RBS1-1056 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | TRUE                                                                                             |         | RBS1-1057 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 8                                                                                                |         | RBS1-1058 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                  |         | RBS1-1059 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                                                                                |         | RBS1-1060 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | HS-DSCH                                                                                          |         | RBS1-1061 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                                                                                      |         | RBS1-1062 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                                                                                      |         | RBS1-1063 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | MAC-ehs                                                                                          |         | RBS1-1064 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 0                                                                                                |         | RBS1-1065 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 7                                                                                                |         | RBS1-1066 |
| <ul style="list-style-type: none"> <li>- RAB information for setup</li> <li>- RAB info</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A24       | (high-speed AM DTCH for PS domain)                                                               | Rel-8   | RBS1-1067 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                  |         | RBS1-1068 |



| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Condition                      | Value/remark                        | Version | Index     |
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| <ul style="list-style-type: none"> <li>- RAB identity</li> </ul> <p>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.</p> <ul style="list-style-type: none"> <li>- CN domain identity</li> <li>- NAS Synchronization Indicator</li> <li>- Re-establishment timer</li> <li>- RB information to setup</li> <li>- RB identity</li> <li>- PDCP info</li> <li>- Support for lossless SRNS relocation</li> <li>- Max PDCP SN window size</li> <li>- PDCP PDU header</li> <li>- Header compression information</li> <li>- CHOICE RLC info type</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- CHOICE SDU discard mode</li> <li>- MAX_DAT</li> <li>- Transmission window size</li> <li>- Timer_RST</li> <li>- Max_RST</li> <li>- Polling info</li> <li>- Timer_poll_prohibit</li> <li>- Timer_poll</li> <li>- Poll_PDU</li> <li>- Poll_SDU</li> <li>- Last transmission PDU poll</li> <li>- Last retransmission PDU poll</li> <li>- Poll_Windows</li> <li>- Timer_poll_periodic</li> <li>- CHOICE Downlink RLC mode</li> <li>- CHOICE Downlink RLC PDU Size</li> <li>- In-sequence delivery</li> <li>- Receiving window size</li> <li>- Downlink RLC status info</li> <li>- Timer_status_prohibit</li> <li>- Timer_EPC</li> <li>- Missing PDU indicator</li> <li>- Timer_STATUS_periodic</li> <li>- One sided RLC re-establishment</li> <li>- Alternative E-bit interpretation</li> <li>- Use special value of HE field</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size</li> <li>- Length indicator size</li> <li>- Minimum UL RLC PDU size</li> <li>- Largest UL RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of downlink RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE DL MAC header type</li> <li>- DL HS-DSCH MAC-ehs Queue Id</li> <li>- Logical channel identity</li> </ul> |                                | 0000 0101B                          |         | RBS1-1069 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |                                     |         | RBS1-1070 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |                                     |         | RBS1-1074 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Absent                              |         | RBS1-1079 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | RLC info                            |         | RBS1-1081 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | AM RLC                              |         | RBS1-1082 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |                                     |         | RBS1-1083 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | No Discard                          |         | RBS1-1084 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 15                                  |         | RBS1-1085 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 128                                 |         | RBS1-1086 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 500                                 |         | RBS1-1087 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 4                                   |         | RBS1-1088 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |                                     |         | RBS1-1089 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 100                                 |         | RBS1-1090 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 100                                 |         | RBS1-1091 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Not Present                         |         | RBS1-1092 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 1                                   |         | RBS1-1093 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | TRUE                                |         | RBS1-1094 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | TRUE                                |         | RBS1-1095 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 99                                  |         | RBS1-1096 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Not Present                         |         | RBS1-1097 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | AM RLC                              |         | RBS1-1098 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Reference to clause 6 Parameter Set |         | RBS1-1099 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | TRUE                                |         | RBS1-1100 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 768                                 |         | RBS1-1101 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |                                     |         | RBS1-1102 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 100                                 |         | RBS1-1103 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Not Present                         |         | RBS1-1104 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | TRUE                                |         | RBS1-1105 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Not Present                         |         | RBS1-1106 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | FALSE                               |         | RBS1-1107 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Not present                         |         | RBS1-1108 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | TRUE                                |         | RBS1-1109 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |                                     |         | RBS1-1110 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 1 RBMuxOption                       |         | RBS1-1111 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Not present                         |         | RBS1-1112 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 1                                   |         | RBS1-1113 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | E-DCH                               |         | RBS1-1114 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 7                                   |         | RBS1-1115 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 2                                   |         | RBS1-1116 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Flexible size                       |         | RBS1-1117 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 15 bit                              |         | RBS1-1118 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | See clause 6.10                     |         | RBS1-1119 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | See clause 6.10                     |         | RBS1-1120 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | TRUE                                |         | RBS1-1121 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 8                                   |         | RBS1-1122 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                |                                     |         | RBS1-1123 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 1                                   |         | RBS1-1124 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | HS-DSCH                             |         | RBS1-1125 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Not present                         |         | RBS1-1126 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Not present                         |         | RBS1-1127 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | MAC-ehs                             |         | RBS1-1128 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 2                                   |         | RBS1-1129 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | 7                                   |         | RBS1-1130 |
| RB information to reconfigure list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present                         |         | RBS1-1131 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Condition                                  | Value/remark                      | Version | Index     |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | , A9, A10                                  |                                   | Rel-5   | RBS1-1132 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | , A11, A12, A13, A14, A15, A16, A16a, A17, |                                   | Rel-7   | RBS1-1133 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A21, A22, A23                              |                                   | Rel-8   | RBS1-1134 |
| RB information to be affected list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1, A2, A3, A4, A5, A6, A7, A8             | Not Present                       |         | RBS1-1135 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | , A9, A10                                  |                                   | Rel-5   | RBS1-1136 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | , A11, A16, A17,                           |                                   | Rel-7   | RBS1-1137 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A18, A19, A20, A21                         |                                   | Rel-8   | RBS1-1138 |
| RB information to be affected<br><br>- RB identity<br>- RB mapping info<br>- Information for each multiplexing option<br>- RLC logical channel mapping indicator<br>- Number of uplink RLC logical channels<br>- Uplink transport channel type<br>- Logical channel identity<br>- E-DCH MAC-d flow identity<br>- DDI<br>- RLC PDU size list<br>- RLC PDU size<br>- Include in scheduling info<br>- MAC logical channel priority<br>- Downlink RLC logical channel info<br>- Number of RLC logical channels<br>- Downlink transport channel type<br>- DL DCH Transport channel identity<br>- DL DSCH Transport channel identity<br>- Logical channel identity<br>- RB identity<br>- RB mapping info<br>- Information for each multiplexing option<br>- RLC logical channel mapping indicator<br>- Number of uplink RLC logical channels<br>- Uplink transport channel type<br>- Logical channel identity<br>- E-DCH MAC-d flow identity<br>- DDI<br>- RLC PDU size list<br>- RLC PDU size<br>- Include in scheduling info<br>- MAC logical channel priority<br>- Downlink RLC logical channel info<br>- Number of RLC logical channels<br>- Downlink transport channel type<br>- DL DCH Transport channel identity<br>- DL DSCH Transport channel identity<br>- Logical channel identity<br>- RB identity<br>- RB mapping info<br>- Information for each multiplexing option<br>- RLC logical channel mapping indicator<br>- Number of uplink RLC logical channels<br>- Uplink transport channel type<br>- Logical channel identity<br>- E-DCH MAC-d flow identity<br>- DDI<br>- RLC PDU size list<br>- RLC PDU size | A12, A14, A22                              | 1 (UM DCCH for RRC)               | Rel-7   | RBS1-1139 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                   |         | RBS1-1140 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                   |         | RBS1-1141 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1 RBmuxOption                     |         | RBS1-1142 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | Not Present                       |         | RBS1-1143 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1                                 |         | RBS1-1144 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | E-DCH                             |         | RBS1-1145 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1                                 |         | RBS1-1146 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1                                 |         | RBS1-1147 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1                                 |         | RBS1-1148 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1 RLC PDU size                    |         | RBS1-1149 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 144 bits                          |         | RBS1-1150 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | FALSE                             |         | RBS1-1151 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1                                 |         | RBS1-1152 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                   |         | RBS1-1153 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1                                 |         | RBS1-1154 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | DCH                               |         | RBS1-1155 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 10                                |         | RBS1-1156 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | Not Present                       |         | RBS1-1157 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1                                 |         | RBS1-1158 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 2 (AM DCCH for RRC)               |         | RBS1-1159 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                   |         | RBS1-1160 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1 RBmuxOption                     |         | RBS1-1161 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | Not Present                       |         | RBS1-1162 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1                                 |         | RBS1-1163 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | E-DCH                             |         | RBS1-1164 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 2                                 |         | RBS1-1165 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1                                 |         | RBS1-1166 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 2                                 |         | RBS1-1167 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1 RLC PDU size                    |         | RBS1-1168 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 144 bits                          |         | RBS1-1169 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | FALSE                             |         | RBS1-1170 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 2                                 |         | RBS1-1171 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                   |         | RBS1-1172 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1                                 |         | RBS1-1173 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | DCH                               |         | RBS1-1174 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 10                                |         | RBS1-1175 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | Not Present                       |         | RBS1-1176 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 2                                 |         | RBS1-1177 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 3 (AM DCCH for NAS High Priority) |         | RBS1-1178 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |                                   |         | RBS1-1179 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1 RBmuxOption                     |         | RBS1-1180 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | Not Present                       |         | RBS1-1181 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1                                 |         | RBS1-1182 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | E-DCH                             |         | RBS1-1183 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 3                                 |         | RBS1-1184 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1                                 |         | RBS1-1185 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 3                                 |         | RBS1-1186 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 1 RLC PDU size                    |         | RBS1-1187 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            | 144 bits                          |         | RBS1-1188 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Condition            | Value/remark                     | Version        | Index     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------|----------------|-----------|
| <ul style="list-style-type: none"> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- Logical channel identity</li> <li>- RB identity</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- DDI</li> <li>- RLC PDU size list</li> <li>- RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- Logical channel identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                     |                      | FALSE                            |                | RBS1-1189 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 3                                |                | RBS1-1190 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1191 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | DCH                              |                | RBS1-1192 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 10                               |                | RBS1-1193 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | Not Present                      |                | RBS1-1194 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 3                                |                | RBS1-1195 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 4 (AM DCCH for NAS Low Priority) |                | RBS1-1196 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1 RBMuxOption                    |                | RBS1-1197 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | Not Present                      |                | RBS1-1198 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1199 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | E-DCH                            |                | RBS1-1200 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 4                                |                | RBS1-1201 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1202 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 4                                |                | RBS1-1203 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1 RLC PDU size                   |                | RBS1-1204 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 144 bits                         |                | RBS1-1205 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | FALSE                            |                | RBS1-1206 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 4                                |                | RBS1-1207 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1208 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | DCH                              |                | RBS1-1209 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 10                               |                | RBS1-1210 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | Not Present                      |                | RBS1-1211 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 4                                |                | RBS1-1212 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      |                                  |                | RBS1-1213 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      |                                  |                | RBS1-1214 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      |                                  |                | RBS1-1215 |
| RB information to be affected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A13, A15<br>A19, A20 |                                  | Rel-7<br>Rel-8 | RBS1-1216 |
| <ul style="list-style-type: none"> <li>- RB identity</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- DDI</li> <li>- RLC PDU size list</li> <li>- RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- DL HS-DSCH MAC-d flow identity</li> <li>- Logical channel identity</li> <li>- RB identity</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- DDI</li> <li>- RLC PDU size list</li> <li>- RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> </ul> |                      | 1 (UM DCCH for RRC)              |                | RBS1-1217 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1 RBMuxOption                    |                | RBS1-1218 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | Not Present                      |                | RBS1-1219 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1220 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | E-DCH                            |                | RBS1-1221 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1222 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1223 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1224 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1225 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1 RLC PDU size                   |                | RBS1-1226 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 144 bits                         |                | RBS1-1227 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | FALSE                            |                | RBS1-1228 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1229 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1230 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1231 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | HS-DSCH                          |                | RBS1-1232 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | Not present                      |                | RBS1-1233 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | Not present                      |                | RBS1-1234 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1235 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1236 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 2 (AM DCCH for RRC)              |                | RBS1-1237 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1 RBMuxOption                    |                | RBS1-1238 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | Not Present                      |                | RBS1-1239 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1240 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | E-DCH                            |                | RBS1-1241 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 2                                |                | RBS1-1242 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1243 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 2                                |                | RBS1-1244 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1 RLC PDU size                   |                | RBS1-1245 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 144 bits                         |                | RBS1-1246 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | FALSE                            |                | RBS1-1247 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 2                                |                | RBS1-1248 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | 1                                |                | RBS1-1249 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | HS-DSCH                          |                | RBS1-1250 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | Not Present                      |                | RBS1-1251 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      | Not Present                      |                | RBS1-1252 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      |                                  |                | RBS1-1253 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      |                                  |                | RBS1-1254 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                      |                                  |                | RBS1-1255 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Condition | Value/remark                      | Version | Index     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------|---------|-----------|
| <ul style="list-style-type: none"> <li>- DL HS-DSCH MAC-d flow identity</li> <li>- Logical channel identity</li> <li>- RB identity</li> <li>- RB mapping info <ul style="list-style-type: none"> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- DDI</li> <li>- RLC PDU size list <ul style="list-style-type: none"> <li>- RLC PDU size</li> </ul> </li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> </ul> </li> <li>- Downlink RLC logical channel info <ul style="list-style-type: none"> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- DL HS-DSCH MAC-d flow identity</li> <li>- Logical channel identity</li> </ul> </li> <li>- RB identity</li> <li>- RB mapping info <ul style="list-style-type: none"> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- DDI</li> <li>- RLC PDU size list <ul style="list-style-type: none"> <li>- RLC PDU size</li> </ul> </li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> </ul> </li> <li>- Downlink RLC logical channel info <ul style="list-style-type: none"> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- DL HS-DSCH MAC-d flow identity</li> <li>- Logical channel identity</li> </ul> </li> </ul> |           | 1                                 |         | RBS1-1256 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 2                                 |         | RBS1-1257 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 3 (AM DCCH for NAS High Priority) |         | RBS1-1258 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                   |         | RBS1-1259 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1 RBMuxOption                     |         | RBS1-1260 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Not Present                       |         | RBS1-1261 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1262 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | E-DCH                             |         | RBS1-1263 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 3                                 |         | RBS1-1264 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1265 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 3                                 |         | RBS1-1266 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1 RLC PDU size                    |         | RBS1-1267 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 144 bits                          |         | RBS1-1268 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | FALSE                             |         | RBS1-1269 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 3                                 |         | RBS1-1270 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                   |         | RBS1-1271 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1272 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | HS-DSCH                           |         | RBS1-1273 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Not Present                       |         | RBS1-1274 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Not Present                       |         | RBS1-1275 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1276 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 3                                 |         | RBS1-1277 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 4 (AM DCCH for NAS Low Priority)  |         | RBS1-1278 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                   |         | RBS1-1279 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1 RBMuxOption                     |         | RBS1-1280 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Not Present                       |         | RBS1-1281 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1282 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | E-DCH                             |         | RBS1-1283 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 4                                 |         | RBS1-1284 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1285 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 4                                 |         | RBS1-1286 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1 RLC PDU size                    |         | RBS1-1287 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 144 bits                          |         | RBS1-1288 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | FALSE                             |         | RBS1-1289 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 4                                 |         | RBS1-1290 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                   |         | RBS1-1291 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1292 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | HS-DSCH                           |         | RBS1-1293 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Not Present                       |         | RBS1-1294 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Not Present                       |         | RBS1-1295 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1296 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 4                                 |         | RBS1-1297 |
| RB information to be affected <ul style="list-style-type: none"> <li>- RB identity</li> <li>- RB mapping info <ul style="list-style-type: none"> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size <ul style="list-style-type: none"> <li>- DDI</li> <li>- RLC PDU size list <ul style="list-style-type: none"> <li>- RLC PDU size</li> </ul> </li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> </ul> </li> <li>- Downlink RLC logical channel info <ul style="list-style-type: none"> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> <li>- DL HS-DSCH MAC-ehs Queue Id</li> </ul> </li> <li>- Logical channel identity</li> </ul> </li> </ul> </li> <li>- RB identity</li> <li>- RB mapping info</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A16a      | 1 (UM DCCH for RRC)               | Rel-7   | RBS1-1298 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                   |         | RBS1-1299 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                   | Rel-8   | RBS1-1300 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1 RBMuxOption                     |         | RBS1-1301 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Not Present                       |         | RBS1-1302 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1303 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | E-DCH                             |         | RBS1-1304 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1305 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1306 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Fixed size                        |         | RBS1-1307 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1308 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1 RLC PDU size                    |         | RBS1-1309 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 144 bits                          |         | RBS1-1310 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | FALSE                             |         | RBS1-1311 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1312 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                   |         | RBS1-1313 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1314 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | HS-DSCH                           |         | RBS1-1315 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Not present                       |         | RBS1-1316 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Not present                       |         | RBS1-1317 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | MAC-ehs                           |         | RBS1-1318 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1319 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                                 |         | RBS1-1320 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 2 (AM DCCH for RRC)               |         | RBS1-1321 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                   |         | RBS1-1322 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Condition | Value/remark                      | Version | Index     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------|---------|-----------|
| <ul style="list-style-type: none"> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size</li> <li>- DDI</li> <li>- RLC PDU size list</li> <li>- RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i></li> <li>- DL HS-DSCH MAC-ehs Queue Id</li> <li>- Logical channel identity</li> <li>- RB identity</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size</li> <li>- DDI</li> <li>- RLC PDU size list</li> <li>- RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i></li> <li>- DL HS-DSCH MAC-ehs Queue Id</li> <li>- Logical channel identity</li> <li>- RB identity</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size</li> <li>- DDI</li> <li>- RLC PDU size list</li> <li>- RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i></li> <li>- DL HS-DSCH MAC-ehs Queue Id</li> <li>- Logical channel identity</li> </ul> |           | 1 RBMuxOption                     | Rel-8   | RBS1-1323 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Not Present                       |         | RBS1-1324 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1                                 |         | RBS1-1325 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | E-DCH                             |         | RBS1-1326 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 2                                 |         | RBS1-1327 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1                                 |         | RBS1-1328 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Fixed size                        |         | RBS1-1329 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 2                                 |         | RBS1-1330 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1 RLC PDU size                    |         | RBS1-1331 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 144 bits                          |         | RBS1-1332 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | FALSE                             |         | RBS1-1333 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 2                                 | Rel-8   | RBS1-1334 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                   |         | RBS1-1335 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1                                 |         | RBS1-1336 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | HS-DSCH                           |         | RBS1-1337 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Not Present                       |         | RBS1-1338 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Not Present                       |         | RBS1-1339 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | MAC-ehs                           |         | RBS1-1340 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1                                 |         | RBS1-1341 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 2                                 |         | RBS1-1342 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 3 (AM DCCH for NAS High Priority) |         | RBS1-1343 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                   |         | RBS1-1344 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1 RBMuxOption                     | Rel-8   | RBS1-1345 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Not Present                       |         | RBS1-1346 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1                                 |         | RBS1-1347 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | E-DCH                             |         | RBS1-1348 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 3                                 |         | RBS1-1349 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1                                 |         | RBS1-1350 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Fixed size                        |         | RBS1-1351 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 3                                 |         | RBS1-1352 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1 RLC PDU size                    |         | RBS1-1353 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 144 bits                          |         | RBS1-1354 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | FALSE                             |         | RBS1-1355 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 3                                 | Rel-8   | RBS1-1356 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                   |         | RBS1-1357 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1                                 |         | RBS1-1358 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | HS-DSCH                           |         | RBS1-1359 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Not Present                       |         | RBS1-1360 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Not Present                       |         | RBS1-1361 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | MAC-ehs                           |         | RBS1-1362 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1                                 |         | RBS1-1363 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 3                                 |         | RBS1-1364 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 4 (AM DCCH for NAS Low Priority)  |         | RBS1-1365 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                   |         | RBS1-1366 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1 RBMuxOption                     | Rel-8   | RBS1-1367 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1                                 |         | RBS1-1369 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | E-DCH                             |         | RBS1-1370 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 4                                 |         | RBS1-1371 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1                                 |         | RBS1-1372 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 144 bits                          |         | RBS1-1376 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | FALSE                             |         | RBS1-1377 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 4                                 | Rel-8   | RBS1-1378 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1                                 |         | RBS1-1380 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | HS-DSCH                           |         | RBS1-1381 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Not Present                       |         | RBS1-1383 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | MAC-ehs                           |         | RBS1-1384 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 1                                 |         | RBS1-1385 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | 4                                 |         | RBS1-1386 |
| RB information to be affected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | A23       |                                   | Rel-8   | RBS1-1387 |
| - RB identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 1 (UM DCCH for RRC)               |         | RBS1-1388 |
| - RB mapping info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                   |         | RBS1-1389 |

| Information Element                        | Condition | Value/remark                      | Version | Index     |
|--------------------------------------------|-----------|-----------------------------------|---------|-----------|
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBS1-1390 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBS1-1391 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBS1-1392 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBS1-1393 |
| - Logical channel identity                 |           | 1                                 |         | RBS1-1394 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBS1-1395 |
| - CHOICE RLC PDU size                      |           | Fixed size                        |         | RBS1-1396 |
| - DDI                                      |           | Not Present                       |         | RBS1-1397 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBS1-1398 |
| - RLC PDU size                             |           | 144 bits                          |         | RBS1-1399 |
| - Include in scheduling info               |           | FALSE                             |         | RBS1-1400 |
| - MAC logical channel priority             |           | 1                                 |         | RBS1-1401 |
| - Downlink RLC logical channel info        |           |                                   |         | RBS1-1402 |
| - Number of RLC logical channels           |           | 1                                 |         | RBS1-1403 |
| - Downlink transport channel type          |           | HS-DSCH                           |         | RBS1-1404 |
| - DL DCH Transport channel identity        |           | Not present                       |         | RBS1-1405 |
| - DL DSCH Transport channel identity       |           | Not present                       |         | RBS1-1406 |
| - CHOICE <i>DL MAC header type</i>         |           | MAC-ehs                           |         | RBS1-1407 |
| - DL HS-DSCH MAC-ehs Queue Id              |           | 1                                 |         | RBS1-1408 |
| - Logical channel identity                 |           | 1                                 |         | RBS1-1409 |
| - RB identity                              |           | 2 (AM DCCH for RRC)               |         | RBS1-1410 |
| - RB mapping info                          |           |                                   |         | RBS1-1411 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBS1-1412 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBS1-1413 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBS1-1414 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBS1-1415 |
| - Logical channel identity                 |           | 2                                 |         | RBS1-1416 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBS1-1417 |
| - CHOICE RLC PDU size                      |           | Fixed size                        |         | RBS1-1418 |
| - DDI                                      |           | Not Present                       |         | RBS1-1419 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBS1-1420 |
| - RLC PDU size                             |           | 144 bits                          |         | RBS1-1421 |
| - Include in scheduling info               |           | FALSE                             |         | RBS1-1422 |
| - MAC logical channel priority             |           | 2                                 |         | RBS1-1423 |
| - Downlink RLC logical channel info        |           |                                   |         | RBS1-1424 |
| - Number of RLC logical channels           |           | 1                                 |         | RBS1-1425 |
| - Downlink transport channel type          |           | HS-DSCH                           |         | RBS1-1426 |
| - DL DCH Transport channel identity        |           | Not Present                       |         | RBS1-1427 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBS1-1428 |
| - CHOICE <i>DL MAC header type</i>         |           | MAC-ehs                           |         | RBS1-1429 |
| - DL HS-DSCH MAC-ehs Queue Id              |           | 1                                 |         | RBS1-1430 |
| - Logical channel identity                 |           | 2                                 |         | RBS1-1431 |
| - RB identity                              |           | 3 (AM DCCH for NAS High Priority) |         | RBS1-1432 |
| - RB mapping info                          |           |                                   |         | RBS1-1433 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBS1-1434 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBS1-1435 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBS1-1436 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBS1-1437 |
| - Logical channel identity                 |           | 3                                 |         | RBS1-1438 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBS1-1439 |
| - CHOICE RLC PDU size                      |           | Fixed size                        |         | RBS1-1440 |
| - DDI                                      |           | Not Present                       |         | RBS1-1441 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBS1-1442 |
| - RLC PDU size                             |           | 144 bits                          |         | RBS1-1443 |
| - Include in scheduling info               |           | FALSE                             |         | RBS1-1444 |
| - MAC logical channel priority             |           | 3                                 |         | RBS1-1445 |
| - Downlink RLC logical channel info        |           |                                   |         | RBS1-1446 |
| - Number of RLC logical channels           |           | 1                                 |         | RBS1-1447 |
| - Downlink transport channel type          |           | HS-DSCH                           |         | RBS1-1448 |
| - DL DCH Transport channel identity        |           | Not Present                       |         | RBS1-1449 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBS1-1450 |
| - CHOICE <i>DL MAC header type</i>         |           | MAC-ehs                           |         | RBS1-1451 |
| - DL HS-DSCH MAC-ehs Queue Id              |           | 1                                 |         | RBS1-1452 |
| - Logical channel identity                 |           | 3                                 |         | RBS1-1453 |
| - RB identity                              |           | 4 (AM DCCH for NAS Low Priority)  |         | RBS1-1454 |
| - RB mapping info                          |           |                                   |         | RBS1-1455 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBS1-1456 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition | Value/remark                      | Version | Index     |
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| <ul style="list-style-type: none"> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size <ul style="list-style-type: none"> <li>- DDI</li> </ul> </li> <li>- RLC PDU size list <ul style="list-style-type: none"> <li>- RLC PDU size</li> </ul> </li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> <li>- DL HS-DSCH MAC-ehs Queue Id</li> </ul> </li> <li>- Logical channel identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                       |         | RBS1-1457 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Fixed size                        |         | RBS1-1462 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1 RLC PDU size                    |         | RBS1-1464 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 144 bits                          |         | RBS1-1465 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | FALSE                             |         | RBS1-1466 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                   |         | RBS1-1468 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | HS-DSCH                           |         | RBS1-1470 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                       |         | RBS1-1471 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                       |         | RBS1-1472 |
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| RB information to be affected<br><ul style="list-style-type: none"> <li>- RB identity</li> <li>- RB mapping info <ul style="list-style-type: none"> <li>- Information for each multiplexing option</li> </ul> </li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size <ul style="list-style-type: none"> <li>- DDI</li> </ul> </li> <li>- RLC PDU size list <ul style="list-style-type: none"> <li>- RLC PDU size</li> </ul> </li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> <li>- DL HS-DSCH MAC-ehs Queue Id</li> </ul> </li> <li>- Logical channel identity</li> </ul> - RB identity<br>- RB mapping info <ul style="list-style-type: none"> <li>- Information for each multiplexing option</li> </ul> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size <ul style="list-style-type: none"> <li>- DDI</li> </ul> </li> <li>- RLC PDU size list <ul style="list-style-type: none"> <li>- RLC PDU size</li> </ul> </li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> <li>- DL HS-DSCH MAC-ehs Queue Id</li> </ul> </li> <li>- Logical channel identity</li> - RB identity<br>- RB mapping info <ul style="list-style-type: none"> <li>- Information for each multiplexing option</li> </ul> | A24       | 4                                 | Rel-8   | RBS1-1475 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1 (UM DCCH for RRC)               |         | RBS1-1476 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                       |         | RBS1-1479 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                 |         | RBS1-1480 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | E-DCH                             |         | RBS1-1481 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                 |         | RBS1-1482 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 3                                 |         | RBS1-1483 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Fixed size                        |         | RBS1-1484 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 0 (Not applicable for MAC-i/is)   |         | RBS1-1485 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1 RLC PDU size                    |         | RBS1-1486 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 144 bits                          |         | RBS1-1487 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | FALSE                             |         | RBS1-1488 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                 |         | RBS1-1489 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                   |         | RBS1-1490 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                 |         | RBS1-1491 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | HS-DSCH                           |         | RBS1-1492 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                       |         | RBS1-1493 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not present                       |         | RBS1-1494 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | MAC-ehs                           |         | RBS1-1495 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 3                                 |         | RBS1-1496 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                 |         | RBS1-1497 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 2 (AM DCCH for RRC)               |         | RBS1-1498 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                   |         | RBS1-1499 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1 RBMuxOption                     |         | RBS1-1500 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                       |         | RBS1-1501 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                 |         | RBS1-1502 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | E-DCH                             |         | RBS1-1503 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 2                                 |         | RBS1-1504 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 3                                 |         | RBS1-1505 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Fixed size                        |         | RBS1-1506 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 0 (Not applicable for MAC-i/is)   |         | RBS1-1507 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1 RLC PDU size                    |         | RBS1-1508 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 144 bits                          |         | RBS1-1509 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | FALSE                             |         | RBS1-1510 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 2                                 |         | RBS1-1511 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                   |         | RBS1-1512 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1                                 |         | RBS1-1513 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | HS-DSCH                           |         | RBS1-1514 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                       |         | RBS1-1515 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                       |         | RBS1-1516 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | MAC-ehs                           |         | RBS1-1517 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 3                                 |         | RBS1-1518 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 2                                 |         | RBS1-1519 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 3 (AM DCCH for NAS High Priority) |         | RBS1-1520 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                   |         | RBS1-1521 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1 RBMuxOption                     |         | RBS1-1522 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Condition                                  | Value/remark                     | Version | Index     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|---------|-----------|
| <ul style="list-style-type: none"> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size <ul style="list-style-type: none"> <li>- DDI</li> </ul> </li> <li>- RLC PDU size list <ul style="list-style-type: none"> <li>- RLC PDU size</li> </ul> </li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> <li>- DL HS-DSCH MAC-ehs Queue Id</li> </ul> </li> <li>- Logical channel identity</li> <li>- RB identity</li> <li>- RB mapping info <ul style="list-style-type: none"> <li>- Information for each multiplexing option</li> </ul> </li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- CHOICE RLC PDU size <ul style="list-style-type: none"> <li>- DDI</li> </ul> </li> <li>- RLC PDU size list <ul style="list-style-type: none"> <li>- RLC PDU size</li> </ul> </li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE <i>DL MAC header type</i> <ul style="list-style-type: none"> <li>- DL HS-DSCH MAC-ehs Queue Id</li> </ul> </li> <li>- Logical channel identity</li> </ul> |                                            | Not Present                      | Rel-8   | RBS1-1524 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | 1                                |         | RBS1-1525 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | E-DCH                            |         | RBS1-1526 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | 3                                |         | RBS1-1527 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | 3                                |         | RBS1-1528 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | Fixed size                       |         | RBS1-1529 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | 0 (Not applicable for MAC-i/is)  |         | RBS1-1530 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | 1 RLC PDU size                   |         | RBS1-1531 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | 144 bits                         |         | RBS1-1532 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | FALSE                            |         | RBS1-1533 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | 3                                |         | RBS1-1534 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            |                                  |         | RBS1-1535 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | 1                                |         | RBS1-1536 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | HS-DSCH                          |         | RBS1-1537 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | Not Present                      |         | RBS1-1538 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | Not Present                      |         | RBS1-1539 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | MAC-ehs                          | Rel-8   | RBS1-1540 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | 3                                |         | RBS1-1541 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | 3                                |         | RBS1-1542 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | 4 (AM DCCH for NAS Low Priority) |         | RBS1-1543 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            |                                  |         | RBS1-1544 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | 1 RBmuxOption                    |         | RBS1-1545 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | Not Present                      |         | RBS1-1546 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | 1                                |         | RBS1-1547 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            | E-DCH                            |         | RBS1-1548 |
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| UL Transport channel information common for all transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1, A2, A3, A4, A5, A6, A7, A8             |                                  |         | RBS1-1572 |
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|                                                                    | , A16, A17 |                                                                                                          | Rel-7   | RBS1-1574 |
|                                                                    | , A21      |                                                                                                          | Rel-8   | RBS1-1575 |
| - PRACH TFCS                                                       |            | Not Present                                                                                              |         | RBS1-1576 |
| - CHOICE mode                                                      |            | TDD                                                                                                      |         | RBS1-1577 |
| - Individual UL CCTrCH information                                 |            |                                                                                                          |         | RBS1-1578 |
| - UL TFCS Identity                                                 |            |                                                                                                          |         | RBS1-1579 |
| - TFCS ID                                                          |            | 1                                                                                                        |         | RBS1-1580 |
| - Shared Channel Indicator                                         |            | FALSE                                                                                                    |         | RBS1-1581 |
| - UL TFCS                                                          |            |                                                                                                          |         | RBS1-1582 |
| - CHOICE TFCI signalling                                           |            | Normal                                                                                                   |         | RBS1-1583 |
| - TFCI Field 1 Information                                         |            |                                                                                                          |         | RBS1-1584 |
| - CHOICE TFCS representation                                       |            | Complete reconfiguration                                                                                 |         | RBS1-1585 |
| - TFCS complete reconfiguration information                        |            |                                                                                                          |         | RBS1-1586 |
| - CHOICE CTFC Size                                                 |            | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. |         | RBS1-1587 |
| - CTFC information                                                 |            | This IE is repeated for TFC numbers and reference to clause 6.11.5.4 Parameter Set                       |         | RBS1-1588 |
| - CTFC                                                             |            | Reference to clause 6.11.5.4 Parameter Set                                                               |         | RBS1-1589 |
| - Power offset information                                         |            |                                                                                                          |         | RBS1-1590 |
| - CHOICE Gain Factors                                              |            | Computed Gain Factors(The last TFC is set to Signalled Gain Factors)                                     |         | RBS1-1591 |
| - Reference TFC ID                                                 |            | 0 Integer(0.. 3)                                                                                         |         | RBS1-1592 |
| - CHOICE Gain Factors                                              |            | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)            |         | RBS1-1593 |
| - CHOICE mode                                                      |            | TDD                                                                                                      |         | RBS1-1594 |
| - Gain Factor $\beta_d$                                            |            | 15                                                                                                       |         | RBS1-1595 |
| - Reference TFC ID                                                 |            | 0 Integer(0.. 3)                                                                                         |         | RBS1-1596 |
| - CHOICE mode                                                      |            | TDD                                                                                                      |         | RBS1-1597 |
| - TFC subset                                                       |            |                                                                                                          |         | RBS1-1598 |
| - CHOICE Subset representation                                     |            | Full transport format combination set                                                                    |         | RBS1-1599 |
| - TFC subset list                                                  |            | Not Present                                                                                              |         | RBS1-1600 |
| UL Transport channel information common for all transport channels | A11        |                                                                                                          | Rel-7   | RBS1-1601 |
| - PRACH TFCS                                                       |            | Not Present                                                                                              |         | RBS1-1602 |
| - CHOICE mode                                                      |            | TDD                                                                                                      |         | RBS1-1603 |
| - Individual UL CCTrCH information                                 |            |                                                                                                          |         | RBS1-1604 |
| - UL TFCS Identity                                                 |            |                                                                                                          |         | RBS1-1605 |
| - TFCS ID                                                          |            | 1                                                                                                        |         | RBS1-1606 |
| - Shared Channel Indicator                                         |            | FALSE                                                                                                    |         | RBS1-1607 |
| - UL TFCS                                                          |            |                                                                                                          |         | RBS1-1608 |
| - CHOICE TFCI signalling                                           |            | Normal                                                                                                   |         | RBS1-1609 |
| - TFCI Field 1 Information                                         |            |                                                                                                          |         | RBS1-1610 |
| - CHOICE TFCS representation                                       |            | Complete reconfiguration                                                                                 |         | RBS1-1611 |
| - TFCS complete reconfiguration information                        |            |                                                                                                          |         | RBS1-1612 |
| - CHOICE CTFC Size                                                 |            | ctfc2bit                                                                                                 |         | RBS1-1613 |
| - CTFC information                                                 |            |                                                                                                          |         | RBS1-1614 |
| - CTFC                                                             |            | 0<br>((UL DCH RAB, DCCH)=(TF0, TF0))                                                                     |         | RBS1-1615 |
| - Power offset information                                         |            |                                                                                                          |         | RBS1-1616 |
| - CHOICE Gain Factors                                              |            | Computed Gain Factors                                                                                    |         | RBS1-1617 |
| - Reference TFC ID                                                 |            | 0 Integer(0.. 3)                                                                                         |         | RBS1-1618 |
| - CTFC                                                             |            | 1<br>((UL DCH RAB, DCCH)=(TF0, TF1))                                                                     |         | RBS1-1619 |
| - CHOICE Gain Factors                                              |            | Signalled Gain Factors                                                                                   |         | RBS1-1620 |
| - CHOICE mode                                                      |            | TDD                                                                                                      |         | RBS1-1621 |
| - Gain factor $\beta_d$                                            |            | 15                                                                                                       |         | RBS1-1622 |
| - Reference TFC ID                                                 |            | 0 Integer(0.. 3)                                                                                         |         | RBS1-1623 |

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| - CHOICE mode                                                      |                                | TDD                                    |         | RBS1-1624 |
| - TFC subset                                                       |                                |                                        |         | RBS1-1625 |
| - CHOICE Subset representation                                     |                                | Full transport format combination set  |         | RBS1-1626 |
| - TFC subset list                                                  |                                | Not Present                            |         | RBS1-1627 |
| UL Transport channel information common for all transport channels | A12, A13, A14, A15, A16a       | Not Present                            | Rel-7   | RBS1-1628 |
|                                                                    | A18, A19, A20, A22, A23, A24   |                                        | Rel-8   | RBS1-1629 |
| Deleted TrCH information list                                      | A1, A2, A3, A4, A5, A6, A7, A8 | Not Present                            |         | RBS1-1630 |
|                                                                    | , A9, A10                      |                                        | Rel-5   | RBS1-1631 |
|                                                                    | , A11, A16, A17,               |                                        | Rel-7   | RBS1-1632 |
|                                                                    | A18, A19, A20, A21, A24        |                                        | Rel-8   | RBS1-1633 |
| Deleted TrCH information list                                      | A12, A13, A14, A15, A16a       |                                        | Rel-7   | RBS1-1634 |
|                                                                    | , A22, A23                     |                                        | Rel-8   | RBS1-1635 |
| - Uplink transport channel type                                    |                                | DCH                                    |         | RBS1-1636 |
| - UL transport channel identity                                    |                                | 5                                      |         | RBS1-1637 |
| Added or Reconfigured UL TrCH information                          | A1, A3 A4, A5, A6, A7          | 1 DCH added, 1 DCH reconfigured        |         | RBS1-1638 |
|                                                                    | , A9, A10                      |                                        | Rel-5   | RBS1-1639 |
|                                                                    | , A16, A17                     |                                        | Rel-7   | RBS1-1640 |
|                                                                    | , A21                          |                                        | Rel-8   | RBS1-1641 |
| - Added or Reconfigured UL TrCH information                        |                                |                                        |         | RBS1-1642 |
| - Uplink transport channel type                                    |                                | DCH                                    |         | RBS1-1643 |
| - UL Transport channel identity                                    |                                | 5                                      |         | RBS1-1644 |
| - TFS                                                              |                                |                                        |         | RBS1-1645 |
| - CHOICE Transport channel type                                    |                                | Dedicated transport channels           |         | RBS1-1646 |
| - Dynamic Transport format information                             |                                |                                        |         | RBS1-1647 |
| - RLC Size                                                         |                                | Reference to clause 6.11 Parameter Set |         | RBS1-1648 |
| - Number of TBs and TTI List                                       | 1 to maxTF                     | (This IE is repeated for TF number.)   |         | RBS1-1649 |
| - Transmission Time Interval                                       |                                | Not Present                            |         | RBS1-1650 |
| - Number of Transport blocks                                       |                                | Reference to clause 6.11 Parameter Set |         | RBS1-1651 |
| - CHOICE Logical channel list                                      |                                | All                                    |         | RBS1-1652 |
| - Semi-static Transport Format information                         |                                |                                        |         | RBS1-1653 |
| - Transmission time interval                                       |                                | Reference to clause 6.11 Parameter Set |         | RBS1-1654 |
| - Type of channel coding                                           |                                | Reference to clause 6.11 Parameter Set |         | RBS1-1655 |
| - Coding Rate                                                      |                                | Reference to clause 6.11 Parameter Set |         | RBS1-1656 |
| - Rate matching attribute                                          |                                | Reference to clause 6.11 Parameter Set |         | RBS1-1657 |
| - CRC size                                                         |                                | Reference to clause 6.11 Parameter Set |         | RBS1-1658 |
| - Uplink transport channel type                                    |                                | DCH                                    |         | RBS1-1659 |
| - UL Transport channel identity                                    |                                | 1                                      |         | RBS1-1660 |
| - TFS                                                              |                                |                                        |         | RBS1-1661 |
| - CHOICE Transport channel type                                    |                                | Dedicated transport channels           |         | RBS1-1662 |
| - Dynamic Transport format information                             |                                |                                        |         | RBS1-1663 |
| - RLC Size                                                         |                                | Reference to clause 6.11 Parameter Set |         | RBS1-1664 |
| - Number of TBs and TTI List                                       | 1 to maxTF                     | (This IE is repeated for TF number.)   |         | RBS1-1665 |
| - Transmission Time Interval                                       |                                | Not Present                            |         | RBS1-1666 |
| - Number of Transport blocks                                       |                                | Reference to clause 6.11 Parameter     |         | RBS1-1667 |

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|                                             |            | Set                                      |         |           |
| - CHOICE Logical channel list               |            | All                                      |         | RBS1-1668 |
| - Semi-static Transport Format information  |            |                                          |         | RBS1-1669 |
| - Transmission time interval                |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1670 |
| - Type of channel coding                    |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1671 |
| - Coding Rate                               |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1672 |
| - Rate matching attribute                   |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1673 |
| - CRC size                                  |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1674 |
| Added or Reconfigured TrCH information list | A2, A8     | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) |         | RBS1-1675 |
| - Added or Reconfigured UL TrCH information |            |                                          |         | RBS1-1676 |
| - Uplink transport channel type             |            | DCH                                      |         | RBS1-1677 |
| - UL Transport channel identity             |            | 5                                        |         | RBS1-1678 |
| - TFS                                       |            |                                          |         | RBS1-1679 |
| - CHOICE Transport channel type             |            | Dedicated transport channels             |         | RBS1-1680 |
| - Dynamic Transport format information      |            |                                          |         | RBS1-1681 |
| - RLC Size                                  |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1682 |
| - Number of TBs and TTI List                | 1 to maxTF | (This IE is repeated for TF number.)     |         | RBS1-1683 |
| - Transmission Time Interval                |            | Not Present                              |         | RBS1-1684 |
| - Number of Transport blocks                |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1685 |
| - CHOICE Logical channel list               |            | All                                      |         | RBS1-1686 |
| - Semi-static Transport Format information  |            |                                          |         | RBS1-1687 |
| - Transmission time interval                |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1688 |
| - Type of channel coding                    |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1689 |
| - Coding Rate                               |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1690 |
| - Rate matching attribute                   |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1691 |
| - CRC size                                  |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1692 |
| - Uplink transport channel type             |            | DCH                                      |         | RBS1-1693 |
| - UL Transport channel identity             |            | 1                                        |         | RBS1-1694 |
| - TFS                                       |            |                                          |         | RBS1-1695 |
| - CHOICE Transport channel type             |            | Dedicated transport channels             |         | RBS1-1696 |
| - Dynamic Transport format information      |            |                                          |         | RBS1-1697 |
| - RLC Size                                  |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1698 |
| - Number of TBs and TTI List                | 1 to maxTF | (This IE is repeated for TF number.)     |         | RBS1-1699 |
| - Transmission Time Interval                |            | Not Present                              |         | RBS1-1700 |
| - Number of Transport blocks                |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1701 |
| - CHOICE Logical channel list               |            | All                                      |         | RBS1-1702 |
| - Semi-static Transport Format information  |            |                                          |         | RBS1-1703 |
| - Transmission time interval                |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1704 |
| - Type of channel coding                    |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1705 |
| - Coding Rate                               |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1706 |
| - Rate matching attribute                   |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1707 |
| - CRC size                                  |            | Reference to clause 6.11 Parameter Set   |         | RBS1-1708 |
| - Uplink transport channel type             |            | DCH                                      |         | RBS1-1709 |
| - UL Transport channel identity             |            | 2                                        |         | RBS1-1710 |

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| - TFS                                                |                         |                                                |         | RBS1-1711 |
| - CHOICE Transport channel type                      |                         | Dedicated transport channels                   |         | RBS1-1712 |
| - Dynamic Transport format information               |                         |                                                |         | RBS1-1713 |
| - RLC Size                                           |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1714 |
| - Number of TBs and TTI List                         | 1 to maxTF              | (This IE is repeated for TF number.)           |         | RBS1-1715 |
| - Transmission Time Interval                         |                         | Not Present                                    |         | RBS1-1716 |
| - Number of Transport blocks                         |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1717 |
| - CHOICE Logical channel list                        |                         | All                                            |         | RBS1-1718 |
| - Semi-static Transport Format information           |                         |                                                |         | RBS1-1719 |
| - Transmission time interval                         |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1720 |
| - Type of channel coding                             |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1721 |
| - Coding Rate                                        |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1722 |
| - Rate matching attribute                            |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1723 |
| - CRC size                                           |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1724 |
| - Uplink transport channel type                      |                         | DCH                                            |         | RBS1-1725 |
| - UL Transport channel identity                      |                         | 3                                              |         | RBS1-1726 |
| - TFS                                                |                         |                                                |         | RBS1-1727 |
| - CHOICE Transport channel type                      |                         | Dedicated transport channels                   |         | RBS1-1728 |
| - Dynamic Transport format information               |                         |                                                |         | RBS1-1729 |
| - RLC Size                                           |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1730 |
| - Number of TBs and TTI List                         | 1 to maxTF              | (This IE is repeated for TF number.)           |         | RBS1-1731 |
| - Transmission Time Interval                         |                         | Not Present                                    |         | RBS1-1732 |
| - Number of Transport blocks                         |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1733 |
| - CHOICE Logical channel list                        |                         | All                                            |         | RBS1-1734 |
| - Semi-static Transport Format information           |                         |                                                |         | RBS1-1735 |
| - Transmission time interval                         |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1736 |
| - Type of channel coding                             |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1737 |
| - Coding Rate                                        |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1738 |
| - Rate matching attribute                            |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1739 |
| - CRC size                                           |                         | Reference to clause 6.11 Parameter Set         |         | RBS1-1740 |
| Added or Reconfigured UL TrCH information            | A11                     | 1 E-DCH added, 1 DCH added, 1 DCH reconfigured | Rel-7   | RBS1-1741 |
| - Uplink transport channel type                      |                         | E-DCH                                          |         | RBS1-1742 |
| - CHOICE UL parameters                               |                         | E-DCH                                          |         | RBS1-1743 |
| - UL MAC header type                                 |                         | Not present                                    | Rel-8   | RBS1-1744 |
| - UL MAC header type                                 | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is                                       | Rel-8   | RBS1-1745 |
| - CHOICE <i>mode</i>                                 |                         | TDD                                            |         | RBS1-1746 |
| - HARQ info for E-DCH                                |                         |                                                |         | RBS1-1747 |
| - HARQ RV Configuration                              |                         | rvtable                                        |         | RBS1-1748 |
| - Added or reconfigured E-DCH MAC-d flow             |                         |                                                |         | RBS1-1749 |
| - E-DCH MAC-d flow identity                          |                         | 2                                              |         | RBS1-1750 |
| - E-DCH MAC-d flow power offset                      |                         | 0                                              |         | RBS1-1751 |
| - E-DCH MAC-d flow maximum number of retransmissions |                         | 3                                              |         | RBS1-1752 |
| - E-DCH MAC-d flow retransmission timer              |                         | 60                                             |         | RBS1-1753 |
| - E-DCH MAC-d flow multiplexing list                 |                         | Not Present                                    |         | RBS1-1754 |

| Information Element                        | Condition               | Value/remark                                                   | Version | Index     |
|--------------------------------------------|-------------------------|----------------------------------------------------------------|---------|-----------|
| - CHOICE transmission grant type           |                         | Scheduled grant info                                           |         | RBS1-1755 |
| - Uplink transport channel type            |                         | DCH                                                            |         | RBS1-1756 |
| - UL Transport channel identity            |                         | 1                                                              |         | RBS1-1757 |
| - TFS                                      |                         |                                                                |         | RBS1-1758 |
| - CHOICE Transport channel type            |                         | Dedicated transport channels                                   |         | RBS1-1759 |
| - Dynamic Transport format information     |                         |                                                                |         | RBS1-1760 |
| - RLC Size                                 |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1761 |
| - Number of TBs and TTI List               |                         | (This IE is repeated for TFI number.)                          |         | RBS1-1762 |
| - Transmission Time Interval               |                         | Not Present                                                    |         | RBS1-1763 |
| - Number of Transport blocks               |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1764 |
| - CHOICE Logical channel list              |                         | All                                                            |         | RBS1-1765 |
| - Semi-static Transport Format information |                         |                                                                |         | RBS1-1766 |
| - Transmission time interval               |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1767 |
| - Type of channel coding                   |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1768 |
| - Coding Rate                              |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1769 |
| - Rate matching attribute                  |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1770 |
| - CRC size                                 |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1771 |
| - Uplink transport channel type            |                         | DCH                                                            |         | RBS1-1772 |
| - UL Transport channel identity            |                         | 5                                                              |         | RBS1-1773 |
| - TFS                                      |                         |                                                                |         | RBS1-1774 |
| - CHOICE Transport channel type            |                         | Dedicated transport channels                                   |         | RBS1-1775 |
| - Dynamic Transport format information     |                         |                                                                |         | RBS1-1776 |
| - RLC Size                                 |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1777 |
| - Number of TBs and TTI List               |                         | (This IE is repeated for TFI number.)                          |         | RBS1-1778 |
| - Transmission Time Interval               |                         | Not Present                                                    |         | RBS1-1779 |
| - Number of Transport blocks               |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1780 |
| - CHOICE Logical channel list              |                         | All                                                            |         | RBS1-1781 |
| - Semi-static Transport Format information |                         |                                                                |         | RBS1-1782 |
| - Transmission time interval               |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1783 |
| - Type of channel coding                   |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1784 |
| - Coding Rate                              |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1785 |
| - Rate matching attribute                  |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1786 |
| - CRC size                                 |                         | Reference to clause 6.11 Parameter Set                         |         | RBS1-1787 |
| Added or Reconfigured UL TrCH information  | A12, A13, A16a          | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow | Rel-7   | RBS1-1788 |
|                                            | , A23                   |                                                                | Rel-8   | RBS1-1789 |
| - Uplink transport channel type            |                         | E-DCH                                                          |         | RBS1-1790 |
| - CHOICE UL parameters                     |                         | E-DCH                                                          |         | RBS1-1791 |
| - UL MAC header type                       |                         | Not present                                                    | Rel-8   | RBS1-1792 |
| - UL MAC header type                       | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is                                                       | Rel-8   | RBS1-1793 |
| - CHOICE <i>mode</i>                       |                         | TDD                                                            |         | RBS1-1794 |
| - HARQ info for E-DCH                      |                         |                                                                |         | RBS1-1795 |
| - HARQ RV Configuration                    |                         | rvtable                                                        |         | RBS1-1796 |
| - Added or reconfigured E-DCH MAC-d flow   |                         | (for DCCH)                                                     |         | RBS1-1797 |
| - E-DCH MAC-d flow identity                |                         | 1                                                              |         | RBS1-1798 |
| - E-DCH MAC-d flow power offset            |                         | 0                                                              |         | RBS1-1799 |

| Information Element                                  | Condition                  | Value/remark                                                    | Version | Index     |
|------------------------------------------------------|----------------------------|-----------------------------------------------------------------|---------|-----------|
| - E-DCH MAC-d flow maximum number of retransmissions |                            | 3                                                               |         | RBS1-1800 |
| - E-DCH MAC-d flow retransmission timer              |                            | 60                                                              |         | RBS1-1801 |
| - E-DCH MAC-d flow multiplexing list                 |                            | Not Present                                                     |         | RBS1-1802 |
| - CHOICE transmission grant type                     |                            | Non-scheduled grant info                                        |         | RBS1-1803 |
| - CHOICE <i>mode</i>                                 |                            | TDD(NULL)                                                       |         | RBS1-1804 |
| - Added or reconfigured E-DCH MAC-d flow             |                            | (for DTCH)                                                      |         | RBS1-1805 |
| - E-DCH MAC-d flow identity                          |                            | 2                                                               |         | RBS1-1806 |
| - E-DCH MAC-d flow power offset                      |                            | 0                                                               |         | RBS1-1807 |
| - E-DCH MAC-d flow maximum number of retransmissions |                            | 3                                                               |         | RBS1-1808 |
| - E-DCH MAC-d flow retransmission timer              |                            | 60                                                              |         | RBS1-1809 |
| - E-DCH MAC-d flow multiplexing list                 |                            | Not Present                                                     |         | RBS1-1810 |
| - CHOICE transmission grant type                     |                            | Scheduled grant info                                            |         | RBS1-1811 |
| Added or Reconfigured UL TrCH information            | A14                        | 1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows | Rel-6   | RBS1-1812 |
| - Uplink transport channel type                      |                            | E-DCH                                                           |         | RBS1-1813 |
| - CHOICE UL parameters                               |                            | E-DCH                                                           |         | RBS1-1814 |
| - UL MAC header type                                 |                            | Not present                                                     | Rel-8   | RBS1-1815 |
| - UL MAC header type                                 | MAC-I-FIXED,<br>MAC-I-FLEX | MAC-i/is                                                        | Rel-8   | RBS1-1816 |
| - CHOICE <i>mode</i>                                 |                            | TDD                                                             |         | RBS1-1817 |
| - HARQ info for E-DCH                                |                            |                                                                 |         | RBS1-1818 |
| - HARQ RV Configuration                              |                            | rvtable                                                         |         | RBS1-1819 |
| - Added or reconfigured E-DCH MAC-d flow             |                            | (for DCCH)                                                      |         | RBS1-1820 |
| - E-DCH MAC-d flow identity                          |                            | 1                                                               |         | RBS1-1821 |
| - E-DCH MAC-d flow power offset                      |                            | 0                                                               |         | RBS1-1822 |
| - E-DCH MAC-d flow maximum number of retransmissions |                            | 3                                                               |         | RBS1-1823 |
| - E-DCH MAC-d flow retransmission timer              |                            | 60                                                              |         | RBS1-1824 |
| - E-DCH MAC-d flow multiplexing list                 |                            | Not Present                                                     |         | RBS1-1825 |
| - CHOICE transmission grant type                     |                            | Non-scheduled grant info                                        |         | RBS1-1826 |
| - CHOICE <i>mode</i>                                 |                            | TDD(NULL)                                                       |         | RBS1-1827 |
| - Added or reconfigured E-DCH MAC-d flow             |                            | (for first DTCH)                                                |         | RBS1-1828 |
| - E-DCH MAC-d flow identity                          |                            | 2                                                               |         | RBS1-1829 |
| - E-DCH MAC-d flow power offset                      |                            | 0                                                               |         | RBS1-1830 |
| - E-DCH MAC-d flow maximum number of retransmissions |                            | 3                                                               |         | RBS1-1831 |
| - E-DCH MAC-d flow retransmission timer              |                            | 60                                                              |         | RBS1-1832 |
| - E-DCH MAC-d flow multiplexing list                 |                            | Not Present                                                     |         | RBS1-1833 |
| - CHOICE transmission grant type                     |                            | Scheduled grant info                                            |         | RBS1-1834 |
| - Added or reconfigured E-DCH MAC-d flow             |                            | (for second DTCH)                                               |         | RBS1-1835 |
| - E-DCH MAC-d flow identity                          |                            | 3                                                               |         | RBS1-1836 |
| - E-DCH MAC-d flow power offset                      |                            | 0                                                               |         | RBS1-1837 |
| - E-DCH MAC-d flow maximum number of retransmissions |                            | 3                                                               |         | RBS1-1838 |
| - E-DCH MAC-d flow retransmission timer              |                            | 60                                                              |         | RBS1-1839 |
| - E-DCH MAC-d flow multiplexing list                 |                            | Not Present                                                     |         | RBS1-1840 |
| - CHOICE transmission grant type                     |                            | Scheduled grant info                                            |         | RBS1-1841 |
| Added or Reconfigured UL TrCH information            | A18                        | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flows | Rel-8   | RBS1-1842 |
| - Uplink transport channel type                      |                            | E-DCH                                                           |         | RBS1-1843 |
| - CHOICE UL parameters                               |                            | E-DCH                                                           |         | RBS1-1844 |
| - UL MAC header type                                 |                            | Not present                                                     | Rel-8   | RBS1-1845 |
| - UL MAC header type                                 | MAC-I-FIXED,               | MAC-i/is                                                        | Rel-8   | RBS1-1846 |

| Information Element                                  | Condition               | Value/remark                                                    | Version | Index     |
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|                                                      | MAC-I-FLEX              |                                                                 |         |           |
| - CHOICE <i>mode</i>                                 |                         | TDD                                                             |         | RBS1-1847 |
| - HARQ info for E-DCH                                |                         |                                                                 |         | RBS1-1848 |
| - HARQ RV Configuration                              |                         | rvtable                                                         |         | RBS1-1849 |
| - Added or reconfigured E-DCH MAC-d flow             |                         | (for DCCH)                                                      |         | RBS1-1850 |
| - E-DCH MAC-d flow identity                          |                         | 1                                                               |         | RBS1-1851 |
| - E-DCH MAC-d flow power offset                      |                         | 0                                                               |         | RBS1-1852 |
| - E-DCH MAC-d flow maximum number of retransmissions |                         | 3                                                               |         | RBS1-1853 |
| - E-DCH MAC-d flow retransmission timer              |                         | 60                                                              |         | RBS1-1854 |
| - E-DCH MAC-d flow multiplexing list                 |                         | Not Present                                                     |         | RBS1-1855 |
| - CHOICE transmission grant type                     |                         | Scheduled grant info                                            |         | RBS1-1856 |
| - Added or reconfigured E-DCH MAC-d flow             |                         | (for DTCH)                                                      |         | RBS1-1857 |
| - E-DCH MAC-d flow identity                          |                         | 2                                                               |         | RBS1-1858 |
| - E-DCH MAC-d flow power offset                      |                         | 0                                                               |         | RBS1-1859 |
| - E-DCH MAC-d flow maximum number of retransmissions |                         | 3                                                               |         | RBS1-1860 |
| - E-DCH MAC-d flow retransmission timer              |                         | 60                                                              |         | RBS1-1861 |
| - E-DCH MAC-d flow multiplexing list                 |                         | Not Present                                                     |         | RBS1-1862 |
| - CHOICE transmission grant type                     |                         | Scheduled grant info                                            |         | RBS1-1863 |
| Added or Reconfigured UL TrCH information            | A15                     | 1 E-DCH added with one DCCH MAC-d flow and two DTCH MAC-d flows | Rel-6   | RBS1-1864 |
| - Uplink transport channel type                      |                         | E-DCH                                                           |         | RBS1-1865 |
| - CHOICE UL parameters                               |                         | E-DCH                                                           |         | RBS1-1866 |
| - UL MAC header type                                 |                         | Not present                                                     | Rel-8   | RBS1-1867 |
| - UL MAC header type                                 | MAC-I-FIXED, MAC-I-FLEX | MAC-i/is                                                        | Rel-8   | RBS1-1868 |
| - CHOICE <i>mode</i>                                 |                         | TDD                                                             |         | RBS1-1869 |
| - HARQ info for E-DCH                                |                         |                                                                 |         | RBS1-1870 |
| - HARQ RV Configuration                              |                         | rvtable                                                         |         | RBS1-1871 |
| - Added or reconfigured E-DCH MAC-d flow             |                         | (for DCCH)                                                      |         | RBS1-1872 |
| - E-DCH MAC-d flow identity                          |                         | 1                                                               |         | RBS1-1873 |
| - E-DCH MAC-d flow power offset                      |                         | 0                                                               |         | RBS1-1874 |
| - E-DCH MAC-d flow maximum number of retransmissions |                         | 3                                                               |         | RBS1-1875 |
| - E-DCH MAC-d flow retransmission timer              |                         | 60                                                              |         | RBS1-1876 |
| - E-DCH MAC-d flow multiplexing list                 |                         | Not Present                                                     |         | RBS1-1877 |
| - CHOICE transmission grant type                     |                         | Non-scheduled grant info                                        |         | RBS1-1878 |
| - CHOICE <i>mode</i>                                 |                         | TDD(NULL)                                                       |         | RBS1-1879 |
| - Added or reconfigured E-DCH MAC-d flow             |                         | (for first DTCH)                                                |         | RBS1-1880 |
| - E-DCH MAC-d flow identity                          |                         | 2                                                               |         | RBS1-1881 |
| - E-DCH MAC-d flow power offset                      |                         | 0                                                               |         | RBS1-1882 |
| - E-DCH MAC-d flow maximum number of retransmissions |                         | 7                                                               |         | RBS1-1883 |
| - E-DCH MAC-d flow multiplexing list                 |                         | Not Present                                                     |         | RBS1-1884 |
| - CHOICE transmission grant type                     |                         | Scheduled grant info                                            |         | RBS1-1885 |
| - Added or reconfigured E-DCH MAC-d flow             |                         | (for second DTCH)                                               |         | RBS1-1886 |
| - E-DCH MAC-d flow identity                          |                         | 4                                                               |         | RBS1-1887 |
| - E-DCH MAC-d flow power offset                      |                         | 0                                                               |         | RBS1-1888 |
| - E-DCH MAC-d flow maximum number of retransmissions |                         | 7                                                               |         | RBS1-1889 |
| - E-DCH MAC-d flow multiplexing list                 |                         | Not Present                                                     |         | RBS1-1890 |
| - CHOICE transmission grant type                     |                         | Scheduled grant info                                            |         | RBS1-1891 |
| CHOICE <i>mode</i>                                   |                         | TDD (no data)                                                   |         | RBS1-1892 |
| Added or Reconfigured UL TrCH information            | A19, A20                | 1 E-DCH added with one DCCH                                     | Rel-8   | RBS1-1893 |

| Information Element                                  | Condition                  | Value/remark                                                      | Version | Index     |
|------------------------------------------------------|----------------------------|-------------------------------------------------------------------|---------|-----------|
|                                                      |                            | MAC-d flow and one DTCH MAC-d flow                                |         |           |
| - Uplink transport channel type                      |                            | E-DCH                                                             |         | RBS1-1894 |
| - CHOICE UL parameters                               |                            | E-DCH                                                             |         | RBS1-1895 |
| - UL MAC header type                                 |                            | Not present                                                       |         | RBS1-1896 |
| - UL MAC header type                                 | MAC-I-FIXED,<br>MAC-I-FLEX | MAC-i/is                                                          |         | RBS1-1897 |
| - CHOICE <i>mode</i>                                 |                            | TDD                                                               |         | RBS1-1898 |
| - HARQ info for E-DCH                                |                            |                                                                   |         | RBS1-1899 |
| - HARQ RV Configuration                              |                            | rvtable                                                           |         | RBS1-1900 |
| - Added or reconfigured E-DCH MAC-d flow             |                            | (for DCCH)                                                        |         | RBS1-1901 |
| - E-DCH MAC-d flow identity                          |                            | 1                                                                 |         | RBS1-1902 |
| - E-DCH MAC-d flow power offset                      |                            | 0                                                                 |         | RBS1-1903 |
| - E-DCH MAC-d flow maximum number of retransmissions |                            | 3                                                                 |         | RBS1-1904 |
| - E-DCH MAC-d flow retransmission timer              |                            | 60                                                                |         | RBS1-1905 |
| - E-DCH MAC-d flow multiplexing list                 |                            | Not Present                                                       |         | RBS1-1906 |
| - CHOICE transmission grant type                     |                            | Scheduled grant info                                              |         | RBS1-1907 |
| - CHOICE <i>mode</i>                                 |                            | TDD(NULL)                                                         |         | RBS1-1908 |
| - Added or reconfigured E-DCH MAC-d flow             |                            | (for DTCH)                                                        |         | RBS1-1909 |
| - E-DCH MAC-d flow identity                          |                            | 2                                                                 |         | RBS1-1910 |
| - E-DCH MAC-d flow power offset                      |                            | 0                                                                 |         | RBS1-1911 |
| - E-DCH MAC-d flow maximum number of retransmissions |                            | 3                                                                 |         | RBS1-1912 |
| - E-DCH MAC-d flow retransmission timer              |                            | 60                                                                |         | RBS1-1913 |
| - E-DCH MAC-d flow multiplexing list                 |                            | Not Present                                                       |         | RBS1-1914 |
| - CHOICE transmission grant type                     |                            | Scheduled grant info                                              |         | RBS1-1915 |
| Added or Reconfigured UL TrCH information            | A22                        | 1 E-DCH added with one DCCH MAC-d flow and three DTCH MAC-d flows | Rel-8   | RBS1-1916 |
| - Uplink transport channel type                      |                            | E-DCH                                                             |         | RBS1-1917 |
| - CHOICE UL parameters                               |                            | E-DCH                                                             |         | RBS1-1918 |
| - UL MAC header type                                 |                            | Not present                                                       |         | RBS1-1919 |
| - UL MAC header type                                 |                            | MAC-i/is                                                          |         | RBS1-1920 |
| - CHOICE <i>mode</i>                                 |                            | TDD                                                               |         | RBS1-1921 |
| - HARQ info for E-DCH                                |                            |                                                                   |         | RBS1-1922 |
| - HARQ RV Configuration                              |                            | rvtable                                                           |         | RBS1-1923 |
| - Added or reconfigured E-DCH MAC-d flow             |                            | (for DCCH)                                                        | Rel-7   | RBS1-1924 |
| - E-DCH MAC-d flow identity                          |                            | 1                                                                 |         | RBS1-1925 |
| - E-DCH MAC-d flow power offset                      |                            | 0                                                                 |         | RBS1-1926 |
| - E-DCH MAC-d flow maximum number of retransmissions |                            | 7                                                                 |         | RBS1-1927 |
| - E-DCH MAC-d flow multiplexing list                 |                            | Not Present                                                       |         | RBS1-1928 |
| - CHOICE transmission grant type                     |                            | Scheduled grant info                                              |         | RBS1-1929 |
| - Added or reconfigured E-DCH MAC-d flow             |                            | (for first DTCH)                                                  |         | RBS1-1930 |
| - E-DCH MAC-d flow identity                          |                            | 2                                                                 |         | RBS1-1931 |
| - E-DCH MAC-d flow power offset                      |                            | 0                                                                 |         | RBS1-1932 |
| - E-DCH MAC-d flow maximum number of retransmissions |                            | 7                                                                 |         | RBS1-1933 |
| - E-DCH MAC-d flow multiplexing list                 |                            | Not Present                                                       |         | RBS1-1934 |
| - CHOICE transmission grant type                     |                            | Scheduled grant info                                              |         | RBS1-1935 |
| - Added or reconfigured E-DCH MAC-d flow             |                            | (for second DTCH)                                                 |         | RBS1-1936 |
| - E-DCH MAC-d flow identity                          |                            | 3                                                                 |         | RBS1-1937 |
| - E-DCH MAC-d flow power offset                      |                            | 0                                                                 |         | RBS1-1938 |
| - E-DCH MAC-d flow maximum number of retransmissions |                            | 7                                                                 |         | RBS1-1939 |
| - E-DCH MAC-d flow multiplexing list                 |                            | Not Present                                                       |         | RBS1-1940 |
| - CHOICE transmission grant type                     |                            | Scheduled grant info                                              |         | RBS1-1941 |



| Information Element                                                                                                                                                                                                                                | Condition                 | Value/remark                                                   | Version | Index       |           |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------|---------|-------------|-----------|-----------|
| - Added or reconfigured E-DCH MAC-d flow<br><br>- E-DCH MAC-d flow identity<br>- E-DCH MAC-d flow power offset<br>- E-DCH MAC-d flow maximum number of retransmissions<br>- E-DCH MAC-d flow multiplexing list<br>- CHOICE transmission grant type |                           | (for third DTCH)                                               |         | RBS1-1942   |           |           |
|                                                                                                                                                                                                                                                    |                           | 4                                                              |         | RBS1-1943   |           |           |
|                                                                                                                                                                                                                                                    |                           | 0                                                              |         | RBS1-1944   |           |           |
|                                                                                                                                                                                                                                                    |                           | 7                                                              |         | RBS1-1945   |           |           |
|                                                                                                                                                                                                                                                    |                           | Not Present                                                    |         | RBS1-1946   |           |           |
|                                                                                                                                                                                                                                                    |                           | Scheduled grant info                                           |         | RBS1-1947   |           |           |
| Added or Reconfigured UL TrCH information                                                                                                                                                                                                          | A24                       | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow | Rel-8   | RBS1-1948   |           |           |
| - Uplink transport channel type<br>- CHOICE UL parameters<br>- UL MAC header type                                                                                                                                                                  | MAC-I-FIXED, MAC-I-FLEX   | E-DCH                                                          |         | RBS1-1949   |           |           |
|                                                                                                                                                                                                                                                    |                           | E-DCH                                                          |         | RBS1-1950   |           |           |
|                                                                                                                                                                                                                                                    |                           | MAC-i/is                                                       |         | RBS1-1951   |           |           |
| - HARQ info for E-DCH<br>- HARQ RV Configuration<br>- Added or reconfigured E-DCH MAC-d flow                                                                                                                                                       |                           | rvtable (for DCCH)                                             |         |             | RBS1-1952 |           |
|                                                                                                                                                                                                                                                    |                           |                                                                |         |             | RBS1-1953 |           |
|                                                                                                                                                                                                                                                    |                           |                                                                |         |             | RBS1-1954 |           |
|                                                                                                                                                                                                                                                    |                           |                                                                |         |             |           |           |
| - E-DCH MAC-d flow identity<br>- E-DCH MAC-d flow power offset<br>- E-DCH MAC-d flow maximum number of retransmissions                                                                                                                             |                           | 2<br>0<br>7                                                    |         |             | RBS1-1955 |           |
|                                                                                                                                                                                                                                                    |                           |                                                                |         |             | RBS1-1956 |           |
|                                                                                                                                                                                                                                                    |                           |                                                                |         |             | RBS1-1957 |           |
| - E-DCH MAC-d flow multiplexing list<br>- CHOICE transmission grant type<br>- Added or reconfigured E-DCH MAC-d flow                                                                                                                               |                           | Not Present<br>Scheduled grant info (for DTCH)                 |         |             | RBS1-1958 |           |
|                                                                                                                                                                                                                                                    |                           |                                                                |         |             | RBS1-1959 |           |
|                                                                                                                                                                                                                                                    |                           |                                                                |         |             | RBS1-1960 |           |
| - E-DCH MAC-d flow identity<br>- E-DCH MAC-d flow power offset<br>- E-DCH MAC-d flow maximum number of retransmissions                                                                                                                             |                           | 3<br>0<br>7                                                    |         |             | RBS1-1961 |           |
|                                                                                                                                                                                                                                                    |                           |                                                                |         |             | RBS1-1962 |           |
|                                                                                                                                                                                                                                                    |                           |                                                                |         |             | RBS1-1963 |           |
| - E-DCH MAC-d flow multiplexing list<br>- CHOICE transmission grant type                                                                                                                                                                           |                           | Not Present<br>Scheduled grant info                            |         |             | RBS1-1964 |           |
|                                                                                                                                                                                                                                                    |                           |                                                                |         |             | RBS1-1965 |           |
| DL Transport channel information common for all transport channel                                                                                                                                                                                  |                           | A1, A2, A7, A8                                                 |         |             |           | RBS1-1966 |
| - SCCPCH TFCS                                                                                                                                                                                                                                      |                           |                                                                |         | Not Present |           | RBS1-1967 |
| - CHOICE mode                                                                                                                                                                                                                                      |                           |                                                                |         | TDD         |           | RBS1-1968 |
| - Individual DL CCTrCH information                                                                                                                                                                                                                 |                           |                                                                |         |             |           | RBS1-1969 |
| - DL TFCS Identity                                                                                                                                                                                                                                 |                           |                                                                |         |             |           | RBS1-1970 |
| - TFCS ID                                                                                                                                                                                                                                          |                           |                                                                | 2       |             | RBS1-1971 |           |
| - Shared Channel Indicator                                                                                                                                                                                                                         |                           | FALSE                                                          |         | RBS1-1972   |           |           |
| - CHOICE DL parameters                                                                                                                                                                                                                             |                           | SameAsUL                                                       |         | RBS1-1973   |           |           |
| - UL DCH TFCS Identity                                                                                                                                                                                                                             |                           |                                                                |         | RBS1-1974   |           |           |
| - TFCS ID                                                                                                                                                                                                                                          |                           | 1                                                              |         | RBS1-1975   |           |           |
| - Shared Channel Indicator                                                                                                                                                                                                                         |                           | FALSE                                                          |         | RBS1-1976   |           |           |
| DL Transport channel information common for all transport channel                                                                                                                                                                                  | A3, A4, A5, A6            |                                                                |         | RBS1-1977   |           |           |
|                                                                                                                                                                                                                                                    | A10                       |                                                                | Rel-5   | RBS1-1978   |           |           |
|                                                                                                                                                                                                                                                    | , A11, A12, A14, A16, A17 |                                                                | Rel-7   | RBS1-1979   |           |           |
|                                                                                                                                                                                                                                                    | , A21, A22                |                                                                | Rel-8   | RBS1-1980   |           |           |
| - SCCPCH TFCS                                                                                                                                                                                                                                      |                           | Not Present                                                    |         | RBS1-1981   |           |           |
| - CHOICE mode                                                                                                                                                                                                                                      |                           | TDD                                                            |         | RBS1-1982   |           |           |
| - Individual DL CCTrCH information                                                                                                                                                                                                                 |                           |                                                                |         | RBS1-1983   |           |           |
| - DL TFCS Identity                                                                                                                                                                                                                                 |                           |                                                                |         | RBS1-1984   |           |           |
| - TFCS ID                                                                                                                                                                                                                                          |                           | 2                                                              |         | RBS1-1985   |           |           |
| - Shared Channel Indicator                                                                                                                                                                                                                         |                           | FALSE                                                          |         | RBS1-1986   |           |           |
| - CHOICE DL parameters                                                                                                                                                                                                                             |                           | Independent                                                    |         | RBS1-1987   |           |           |
| - DL TFCS                                                                                                                                                                                                                                          |                           |                                                                |         | RBS1-1988   |           |           |
| - CHOICE TFCI Signalling                                                                                                                                                                                                                           |                           | Normal                                                         |         | RBS1-1989   |           |           |
| - TFCI Field 1 Information                                                                                                                                                                                                                         |                           |                                                                |         | RBS1-1990   |           |           |
| - CHOICE TFCS representation                                                                                                                                                                                                                       |                           | Complete reconfiguration                                       |         | RBS1-1991   |           |           |

| Information Element                                               | Condition                                          | Value/remark                                                                                             | Version | Index     |
|-------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------|-----------|
| - TFCS complete reconfiguration information                       |                                                    |                                                                                                          |         | RBS1-1992 |
| - CHOICE CTFC Size                                                |                                                    | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. |         | RBS1-1993 |
| - CTFC information                                                |                                                    | This IE is repeated for TFC numbers and reference to clause 6.11.5.4                                     |         | RBS1-1994 |
| - CTFC                                                            |                                                    | Reference to clause 6.11.5.4 Parameter Set                                                               |         | RBS1-1995 |
| - Power offset information                                        |                                                    | Not Present                                                                                              |         | RBS1-1996 |
| DL Transport channel information common for all transport channel | A9                                                 |                                                                                                          | Rel-5   | RBS1-1997 |
| - SCCPCH TFCS                                                     |                                                    | Not Present                                                                                              |         | RBS1-1998 |
| - CHOICE mode                                                     |                                                    | TDD                                                                                                      |         | RBS1-1999 |
| - Individual DL CCTrCH information                                |                                                    |                                                                                                          |         | RBS1-2000 |
| - DL TFCS Identity                                                |                                                    |                                                                                                          |         | RBS1-2001 |
| - TFCS ID                                                         |                                                    | 2                                                                                                        |         | RBS1-2002 |
| - Shared Channel Indicator                                        |                                                    | FALSE                                                                                                    |         | RBS1-2003 |
| - CHOICE DL parameters                                            |                                                    | Explicit                                                                                                 |         | RBS1-2004 |
| - DL DCH TFCS                                                     |                                                    |                                                                                                          |         | RBS1-2005 |
| - CHOICE TFCI Signalling                                          |                                                    | Normal                                                                                                   |         | RBS1-2006 |
| - TFCI Field 1 Information                                        |                                                    |                                                                                                          |         | RBS1-2007 |
| - CHOICE TFCS representation                                      |                                                    | Complete reconfiguration                                                                                 |         | RBS1-2008 |
| - TFCS complete reconfigure                                       |                                                    |                                                                                                          |         | RBS1-2009 |
| - CHOICE CTFC Size                                                |                                                    | ctfc2bit                                                                                                 |         | RBS1-2010 |
| - CTFC information                                                |                                                    |                                                                                                          |         | RBS1-2011 |
| - CTFC                                                            |                                                    | 0<br>((DL DCH RAB, DCCH)=(TF0, TF0))                                                                     |         | RBS1-2012 |
| - Power offset information                                        |                                                    | Not Present                                                                                              |         | RBS1-2013 |
| - CTFC                                                            |                                                    | 1<br>((DL DCH RAB, DCCH)=(TF0, TF1))                                                                     |         | RBS1-2014 |
| - Power offset information                                        |                                                    | Not Present                                                                                              |         | RBS1-2015 |
| DL Transport channel information common for all transport channel | A13, A15, A16a                                     | Not Present                                                                                              | Rel-7   | RBS1-2016 |
|                                                                   | , A18, A19, A20, A23, A24                          |                                                                                                          | Rel-8   | RBS1-2017 |
| Deleted TrCH information list                                     | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10            | Not Present                                                                                              |         | RBS1-2018 |
|                                                                   | , A11, A12, A16, A17, A18, A19, A20, A21, A22, A24 |                                                                                                          | Rel-5   | RBS1-2019 |
|                                                                   |                                                    |                                                                                                          | Rel-7   | RBS1-2020 |
|                                                                   |                                                    |                                                                                                          | Rel-8   | RBS1-2021 |
| Deleted DL TrCH information                                       | A13, A15, A16a                                     |                                                                                                          | Rel-7   | RBS1-2022 |
|                                                                   | , A23                                              |                                                                                                          | Rel-8   | RBS1-2023 |
| - Downlink transport channel type                                 |                                                    | DCH                                                                                                      |         | RBS1-2024 |
| - DL Transport channel identity                                   |                                                    | 10                                                                                                       |         | RBS1-2025 |
| Added or Reconfigured TrCH information list                       | A1                                                 | 1 DCH added, 1 DCH reconfigured                                                                          |         | RBS1-2026 |
| - Added or Reconfigured DL TrCH information                       |                                                    |                                                                                                          |         | RBS1-2027 |
| - Downlink transport channel type                                 |                                                    | DCH                                                                                                      |         | RBS1-2028 |
| - DL Transport channel identity                                   |                                                    | 10                                                                                                       |         | RBS1-2029 |
| - CHOICE DL parameters                                            |                                                    | Same as UL                                                                                               |         | RBS1-2030 |
| - Uplink transport channel type                                   |                                                    | DCH                                                                                                      |         | RBS1-2031 |
| - UL TrCH identity                                                |                                                    | 5                                                                                                        |         | RBS1-2032 |
| - DCH quality target                                              |                                                    |                                                                                                          |         | RBS1-2033 |
| - BLER Quality value                                              |                                                    | -20 (-2.0)                                                                                               |         | RBS1-2034 |
| - Downlink transport channel type                                 |                                                    | DCH                                                                                                      |         | RBS1-2035 |
| - DL Transport channel identity                                   |                                                    | 6                                                                                                        |         | RBS1-2036 |
| - CHOICE DL parameters                                            |                                                    | Same as UL                                                                                               |         | RBS1-2037 |

| Information Element                         | Condition          | Value/remark                             | Version | Index     |
|---------------------------------------------|--------------------|------------------------------------------|---------|-----------|
| - Uplink transport channel type             |                    | DCH                                      |         | RBS1-2038 |
| - UL TrCH identity                          |                    | 1                                        |         | RBS1-2039 |
| - DCH quality target                        |                    |                                          |         | RBS1-2040 |
| - BLER Quality value                        |                    | -20 (-2.0)                               |         | RBS1-2041 |
| Added or Reconfigured TrCH information list | A3, A4, A5, A6, A7 | 2 TrCHs(DCH for DCCH and DCH for DTCH)   |         | RBS1-2042 |
| - Added or Reconfigured DL TrCH information |                    |                                          |         | RBS1-2043 |
| - Downlink transport channel type           |                    | DCH                                      |         | RBS1-2044 |
| - DL Transport channel identity             |                    | 10                                       |         | RBS1-2045 |
| - CHOICE DL parameters                      |                    | Same as UL                               |         | RBS1-2046 |
| - Uplink transport channel type             |                    | DCH                                      |         | RBS1-2047 |
| - UL TrCH identity                          |                    | 5                                        |         | RBS1-2048 |
| - DCH quality target                        |                    |                                          |         | RBS1-2049 |
| - BLER Quality value                        |                    | -20 (-2.0)                               |         | RBS1-2050 |
| - Downlink transport channel type           |                    | DCH                                      |         | RBS1-2051 |
| - DL Transport channel identity             |                    | 6                                        |         | RBS1-2052 |
| - CHOICE DL parameters                      |                    | Explicit                                 |         | RBS1-2053 |
| - TFS                                       |                    |                                          |         | RBS1-2054 |
| - CHOICE Transport channel type             |                    | Dedicated transport channels             |         | RBS1-2055 |
| - Dynamic transport format information      |                    |                                          |         | RBS1-2056 |
| - RLC Size                                  |                    | Reference to clause 6.11 Parameter Set   |         | RBS1-2057 |
| - Number of TBs and TTI List                |                    | (This IE is repeated for TF number.)     |         | RBS1-2058 |
| - Transmission Time Interval                |                    | Not Present                              |         | RBS1-2059 |
| - Number of Transport blocks                |                    | Reference to clause 6.11 Parameter Set   |         | RBS1-2060 |
| - Semi-static Transport Format information  |                    |                                          |         | RBS1-2061 |
| - Transmission time interval                |                    | Reference to clause 6.11 Parameter Set   |         | RBS1-2062 |
| - Type of channel coding                    |                    | Reference to clause 6.11 Parameter Set   |         | RBS1-2063 |
| - Coding Rate                               |                    | Reference to clause 6.11 Parameter Set   |         | RBS1-2064 |
| - Rate matching attribute                   |                    | Reference to clause 6.11 Parameter Set   |         | RBS1-2065 |
| - CRC size                                  |                    | Reference to clause 6.11 Parameter Set   |         | RBS1-2066 |
| - DCH quality target                        |                    |                                          |         | RBS1-2067 |
| - Transparent mode signalling info          |                    | Not Present                              |         | RBS1-2068 |
| Added or Reconfigured TrCH information list | A2, A8             | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH) |         | RBS1-2069 |
| - Added or Reconfigured DL TrCH information |                    |                                          |         | RBS1-2070 |
| - Downlink transport channel type           |                    | DCH                                      |         | RBS1-2071 |
| - DL Transport channel identity             |                    | 10                                       |         | RBS1-2072 |
| - CHOICE DL parameters                      |                    | Same as UL                               |         | RBS1-2073 |
| - Uplink transport channel type             |                    | DCH                                      |         | RBS1-2074 |
| - UL TrCH identity                          |                    | 5                                        |         | RBS1-2075 |
| - DCH quality target                        |                    |                                          |         | RBS1-2076 |
| - Transparent mode signalling info          |                    | Not Present                              |         | RBS1-2077 |
| - Downlink transport channel type           |                    | DCH                                      |         | RBS1-2078 |
| - DL Transport channel identity             |                    | 6                                        |         | RBS1-2079 |
| - CHOICE DL parameters                      |                    | Explicit                                 |         | RBS1-2080 |
| - TFS                                       |                    |                                          |         | RBS1-2081 |
| - CHOICE Transport channel type             |                    | Dedicated transport channels             |         | RBS1-2082 |
| - Dynamic transport format information      |                    |                                          |         | RBS1-2083 |
| - RLC Size                                  |                    | Reference to clause 6.11 Parameter Set   |         | RBS1-2084 |
| - Number of TBs and TTI List                |                    | (This IE is repeated for TF number.)     |         | RBS1-2085 |
| - Transmission Time Interval                |                    | Not Present                              |         | RBS1-2086 |
| - Number of Transport blocks                |                    | Reference to clause 6.11 Parameter Set   |         | RBS1-2087 |
| - Semi-static Transport Format information  |                    |                                          |         | RBS1-2088 |
| - Transmission time interval                |                    | Reference to clause 6.11 Parameter Set   |         | RBS1-2089 |

| Information Element                        | Condition | Value/remark                                | Version | Index     |
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| - Type of channel coding                   |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2090 |
| - Coding Rate                              |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2091 |
| - Rate matching attribute                  |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2092 |
| - CRC size                                 |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2093 |
| - DCH quality target                       |           |                                             |         | RBS1-2094 |
| - BLER Quality value                       |           | -20 (-2.0)                                  |         | RBS1-2095 |
| - Downlink transport channel type          |           | DCH                                         |         | RBS1-2096 |
| - DL Transport channel identity            |           | 7                                           |         | RBS1-2097 |
| - CHOICE DL parameters                     |           | Explicit                                    |         | RBS1-2098 |
| - TFS                                      |           |                                             |         | RBS1-2099 |
| - CHOICE Transport channel type            |           | Dedicated transport channels                |         | RBS1-2100 |
| - Dynamic transport format information     |           |                                             |         | RBS1-2101 |
| - RLC Size                                 |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2102 |
| - Number of TBs and TTI List               |           | (This IE is repeated for TF number.)        |         | RBS1-2103 |
| - Transmission Time Interval               |           | Not Present                                 |         | RBS1-2104 |
| - Number of Transport blocks               |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2105 |
| - Semi-static Transport Format information |           |                                             |         | RBS1-2106 |
| - Transmission time interval               |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2107 |
| - Type of channel coding                   |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2108 |
| - Coding Rate                              |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2109 |
| - Rate matching attribute                  |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2110 |
| - CRC size                                 |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2111 |
| - DCH quality target                       |           |                                             |         | RBS1-2112 |
| - BLER Quality value                       |           | -20 (-2.0)                                  |         | RBS1-2113 |
| - Downlink transport channel type          |           | DCH                                         |         | RBS1-2114 |
| - DL Transport channel identity            |           | 8                                           |         | RBS1-2115 |
| - CHOICE DL parameters                     |           | Explicit                                    |         | RBS1-2116 |
| - TFS                                      |           |                                             |         | RBS1-2117 |
| - CHOICE Transport channel type            |           | Dedicated transport channels                |         | RBS1-2118 |
| - Dynamic transport format information     |           |                                             |         | RBS1-2119 |
| - RLC Size                                 |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2120 |
| - Number of TBs and TTI List               |           | (This IE is repeated for TF number.)        |         | RBS1-2121 |
| - Transmission Time Interval               |           | Not Present                                 |         | RBS1-2122 |
| - Number of Transport blocks               |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2123 |
| - Semi-static Transport Format information |           |                                             |         | RBS1-2124 |
| - Transmission time interval               |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2125 |
| - Type of channel coding                   |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2126 |
| - Coding Rate                              |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2127 |
| - Rate matching attribute                  |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2128 |
| - CRC size                                 |           | Reference to clause 6.11 Parameter Set      |         | RBS1-2129 |
| - DCH quality target                       |           |                                             |         | RBS1-2130 |
| - BLER Quality value                       |           | -20 (-2.0)                                  |         | RBS1-2131 |
| Added or Reconfigured DL TrCH information  | A9,A10    | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH) | Rel-5   | RBS1-2132 |
|                                            | , A11     |                                             | Rel-7   | RBS1-2133 |
| - Downlink transport channel type          |           | DCH                                         |         | RBS1-2134 |

| Information Element                          | Condition | Value/remark                                    | Version | Index     |
|----------------------------------------------|-----------|-------------------------------------------------|---------|-----------|
| - DL Transport channel identity              |           | 10                                              |         | RBS1-2135 |
| - CHOICE DL parameters                       |           | Same as UL                                      |         | RBS1-2136 |
| - Uplink transport channel type              |           | DCH                                             |         | RBS1-2137 |
| - UL TrCH identity                           |           | 5                                               |         | RBS1-2138 |
| - DCH quality target                         |           |                                                 |         | RBS1-2139 |
| - BLER Quality value                         |           | -20 (-2.0)                                      |         | RBS1-2140 |
| - Downlink transport channel type            |           | HS-DSCH                                         |         | RBS1-2141 |
| - DL Transport channel identity              |           | Not Present                                     |         | RBS1-2142 |
| - CHOICE DL parameters                       |           | HS-DSCH                                         |         | RBS1-2143 |
| - HARQ Info                                  |           |                                                 |         | RBS1-2144 |
| - Number of Processes                        |           | Reference to clause 6.11.5.4.6<br>Parameter Set |         | RBS1-2145 |
| - CHOICE Memory Partitioning                 |           | Implicit                                        |         | RBS1-2146 |
| - Added or reconfigured MAC-d flow           |           |                                                 |         | RBS1-2147 |
| - MAC-hs queue to add or reconfigure<br>list |           | (one queue)                                     |         | RBS1-2148 |
| - MAC-hs queue Id                            |           | 0                                               |         | RBS1-2149 |
| - MAC-d Flow Identity                        |           | 0                                               |         | RBS1-2150 |
| - T1                                         |           | 120                                             |         | RBS1-2151 |
| - MAC-hs window size                         |           | 16                                              |         | RBS1-2152 |
| - MAC-d PDU size Info                        |           |                                                 |         | RBS1-2153 |
| - MAC-d PDU size                             |           | 336                                             |         | RBS1-2154 |
| - MAC-d PDU size index                       |           | 0                                               |         | RBS1-2155 |
| - MAC-hs queue to delete list                |           | Not present                                     |         | RBS1-2156 |
| - DCH quality target                         |           | Not present                                     |         | RBS1-2157 |
| Added or Reconfigured DL TrCH information    | A12       | 2 TrCHs (DCH for DCCH and HS-<br>DSCH for DTCH) | Rel-7   | RBS1-2158 |
| - Downlink transport channel type            |           | DCH                                             |         | RBS1-2159 |
| - DL Transport channel identity              |           | 10                                              |         | RBS1-2160 |
| - CHOICE DL parameters                       |           | Explicit                                        |         | RBS1-2161 |
| - TFS                                        |           |                                                 |         | RBS1-2162 |
| - CHOICE Transport channel type              |           | Dedicated transport channels                    |         | RBS1-2163 |
| - Dynamic transport format information       |           |                                                 |         | RBS1-2164 |
| - RLC Size                                   |           | Reference to clause 6.11 Parameter<br>Set       |         | RBS1-2165 |
| - Number of TBs and TTI List                 |           | (This IE is repeated for TF number.)            |         | RBS1-2166 |
| - Transmission Time Interval                 |           | Not Present                                     |         | RBS1-2167 |
| - Number of Transport blocks                 |           | Reference to clause 6.11 Parameter<br>Set       |         | RBS1-2168 |
| - Semi-static Transport Format information   |           |                                                 |         | RBS1-2169 |
| - Transmission time interval                 |           | Reference to clause 6.11 Parameter<br>Set       |         | RBS1-2170 |
| - Type of channel coding                     |           | Reference to clause 6.11 Parameter<br>Set       |         | RBS1-2171 |
| - Coding Rate                                |           | Reference to clause 6.11 Parameter<br>Set       |         | RBS1-2172 |
| - Rate matching attribute                    |           | Reference to clause 6.11 Parameter<br>Set       |         | RBS1-2173 |
| - CRC size                                   |           | Reference to clause 6.11 Parameter<br>Set       |         | RBS1-2174 |
| - DCH quality target                         |           |                                                 |         | RBS1-2175 |
| - BLER Quality value                         |           | -20 (-2.0)                                      |         | RBS1-2176 |
| - Downlink transport channel type            |           | HS-DSCH                                         |         | RBS1-2177 |
| - DL Transport channel identity              |           | Not Present                                     |         | RBS1-2178 |
| - CHOICE DL parameters                       |           | HS-DSCH                                         |         | RBS1-2179 |
| - HARQ Info                                  |           |                                                 |         | RBS1-2180 |
| - Number of Processes                        |           | Reference to clause 6.11.5.4.6<br>Parameter Set |         | RBS1-2181 |
| - CHOICE Memory Partitioning                 |           | Implicit                                        |         | RBS1-2182 |
| - Added or reconfigured MAC-d flow           |           |                                                 |         | RBS1-2183 |
| - MAC-hs queue to add or reconfigure list    |           | (one queue)                                     |         | RBS1-2184 |
| - MAC-hs queue Id                            |           | 0                                               |         | RBS1-2185 |
| - MAC-d Flow Identity                        |           | 0                                               |         | RBS1-2186 |
| - T1                                         |           | 120                                             |         | RBS1-2187 |

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| - MAC-hs window size                       |           | 16                                           |         | RBS1-2188 |
| - MAC-d PDU size Info                      |           |                                              |         | RBS1-2189 |
| - MAC-d PDU size                           |           | 336                                          |         | RBS1-2190 |
| - MAC-d PDU size index                     |           | 0                                            |         | RBS1-2191 |
| - MAC-hs queue to delete list              |           | Not present                                  |         | RBS1-2192 |
| - DCH quality target                       |           | Not present                                  |         | RBS1-2193 |
| Added or Reconfigured DL TrCH information  | A13       | 1 TrCH (HS-DSCH for DTCH and DCCH)           | Rel-7   | RBS1-2194 |
|                                            | A19, A20  |                                              | Rel-8   | RBS1-2195 |
| - Downlink transport channel type          |           | HS-DSCH                                      |         | RBS1-2196 |
| - DL Transport channel identity            |           | Not Present                                  |         | RBS1-2197 |
| - CHOICE DL parameters                     |           | HS-DSCH                                      |         | RBS1-2198 |
| - HARQ Info                                |           |                                              |         | RBS1-2199 |
| - Number of Processes                      |           | Reference to clause 6.11.5.4.6 Parameter Set |         | RBS1-2200 |
| - CHOICE Memory Partitioning               |           | Implicit                                     |         | RBS1-2201 |
| - Added or reconfigured MAC-d flow         |           |                                              |         | RBS1-2202 |
| - MAC-hs queue to add or reconfigure list  |           | (two queue)                                  |         | RBS1-2203 |
| - MAC-hs queue Id                          |           | 0(for DTCH)                                  |         | RBS1-2204 |
| - MAC-d Flow Identity                      |           | 0                                            |         | RBS1-2205 |
| - T1                                       |           | 120                                          |         | RBS1-2206 |
| - MAC-hs window size                       |           | 16                                           |         | RBS1-2207 |
| - MAC-d PDU size Info                      |           |                                              |         | RBS1-2208 |
| - MAC-d PDU size                           |           | 336                                          |         | RBS1-2209 |
| - MAC-d PDU size index                     |           | 0                                            |         | RBS1-2210 |
| - MAC-hs queue Id                          |           | 1(for DCCH)                                  |         | RBS1-2211 |
| - MAC-d Flow Identity                      |           | 1                                            |         | RBS1-2212 |
| - T1                                       |           | 120                                          |         | RBS1-2213 |
| - MAC-hs window size                       |           | 16                                           |         | RBS1-2214 |
| - MAC-d PDU size Info                      |           |                                              |         | RBS1-2215 |
| - MAC-d PDU size                           |           | 148                                          |         | RBS1-2216 |
| - MAC-d PDU size index                     |           | 0                                            |         | RBS1-2217 |
| - MAC-hs queue to delete list              |           | Not present                                  |         | RBS1-2218 |
| - DCH quality target                       |           | Not present                                  |         | RBS1-2219 |
| Added or Reconfigured DL TrCH information  | A14       | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH)  | Rel-7   | RBS1-2220 |
|                                            |           |                                              |         |           |
| - Downlink transport channel type          |           | DCH                                          |         | RBS1-2221 |
| - DL Transport channel identity            |           | 10                                           |         | RBS1-2222 |
| - CHOICE DL parameters                     |           | Explicit                                     |         | RBS1-2223 |
| - TFS                                      |           |                                              |         | RBS1-2224 |
| - CHOICE Transport channel type            |           | Dedicated transport channels                 |         | RBS1-2225 |
| - Dynamic transport format information     |           |                                              |         | RBS1-2226 |
| - RLC Size                                 |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2227 |
| - Number of TBs and TTI List               |           | (This IE is repeated for TF number.)         |         | RBS1-2228 |
| - Transmission Time Interval               |           | Not Present                                  |         | RBS1-2229 |
| - Number of Transport blocks               |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2230 |
| - Semi-static Transport Format information |           |                                              |         | RBS1-2231 |
| - Transmission time interval               |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2232 |
| - Type of channel coding                   |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2233 |
| - Coding Rate                              |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2234 |
| - Rate matching attribute                  |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2235 |
| - CRC size                                 |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2236 |
| - DCH quality target                       |           |                                              |         | RBS1-2237 |
| - BLER Quality value                       |           | -20 (-2.0)                                   |         | RBS1-2238 |
| - Downlink transport channel type          |           | HS-DSCH                                      |         | RBS1-2239 |
| - DL Transport channel identity            |           | Not Present                                  |         | RBS1-2240 |
| - CHOICE DL parameters                     |           | HS-DSCH                                      |         | RBS1-2241 |

| Information Element                       | Condition | Value/remark                                    | Version | Index     |
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| - HARQ Info                               |           |                                                 |         | RBS1-2242 |
| - Number of Processes                     |           | Reference to clause 6.11.5.4.6<br>Parameter Set |         | RBS1-2243 |
| - CHOICE Memory Partitioning              |           | Implicit                                        |         | RBS1-2244 |
| - Added or reconfigured MAC-d flow        |           |                                                 |         | RBS1-2245 |
| - MAC-hs queue to add or reconfigure list |           | (two queue)                                     |         | RBS1-2246 |
| - MAC-hs queue Id                         |           | 0 (for first DTCH)                              |         | RBS1-2247 |
| - MAC-d Flow Identity                     |           | 0                                               |         | RBS1-2248 |
| - T1                                      |           | 120                                             |         | RBS1-2249 |
| - MAC-hs window size                      |           | 16                                              |         | RBS1-2250 |
| - MAC-d PDU size Info                     |           |                                                 |         | RBS1-2251 |
| - MAC-d PDU size                          |           | 336                                             |         | RBS1-2252 |
| - MAC-d PDU size index                    |           | 0                                               |         | RBS1-2253 |
| - MAC-hs queue Id                         |           | 2 (for second DTCH)                             |         | RBS1-2254 |
| - MAC-d Flow Identity                     |           | 2                                               |         | RBS1-2255 |
| - T1                                      |           | 120                                             |         | RBS1-2256 |
| - MAC-hs window size                      |           | 16                                              |         | RBS1-2257 |
| - MAC-d PDU size Info                     |           |                                                 |         | RBS1-2258 |
| - MAC-d PDU size                          |           | 336                                             |         | RBS1-2259 |
| - MAC-d PDU size index                    |           | 0                                               |         | RBS1-2260 |
| - MAC-hs queue to delete list             |           | Not present                                     |         | RBS1-2261 |
| - DCH quality target                      |           | Not present                                     |         | RBS1-2262 |
| Added or Reconfigured DL TrCH information | A15       | 1 TrCH (HS-DSCH for 2 DTCH and<br>DCCH)         | Rel-7   | RBS1-2263 |
| - Downlink transport channel type         |           | HS-DSCH                                         |         | RBS1-2264 |
| - DL Transport channel identity           |           | Not Present                                     |         | RBS1-2265 |
| - CHOICE DL parameters                    |           | HS-DSCH                                         |         | RBS1-2266 |
| - HARQ Info                               |           |                                                 |         | RBS1-2267 |
| - Number of Processes                     |           | Reference to clause 6.11.5.4.6<br>Parameter Set |         | RBS1-2268 |
| - CHOICE Memory Partitioning              |           | Implicit                                        |         | RBS1-2269 |
| - Added or reconfigured MAC-d flow        |           |                                                 |         | RBS1-2270 |
| - MAC-hs queue to add or reconfigure list |           | (three queue)                                   |         | RBS1-2271 |
| - MAC-hs queue Id                         |           | 0 (for first DTCH)                              |         | RBS1-2272 |
| - MAC-d Flow Identity                     |           | 0                                               |         | RBS1-2273 |
| - T1                                      |           | 120                                             |         | RBS1-2274 |
| - MAC-hs window size                      |           | 16                                              |         | RBS1-2275 |
| - MAC-d PDU size Info                     |           |                                                 |         | RBS1-2276 |
| - MAC-d PDU size                          |           | 336                                             |         | RBS1-2277 |
| - MAC-d PDU size index                    |           | 0                                               |         | RBS1-2278 |
| - MAC-hs queue Id                         |           | 1 (for DCCH)                                    |         | RBS1-2279 |
| - MAC-d Flow Identity                     |           | 1                                               |         | RBS1-2280 |
| - T1                                      |           | 120                                             |         | RBS1-2281 |
| - MAC-hs window size                      |           | 16                                              |         | RBS1-2282 |
| - MAC-d PDU size Info                     |           |                                                 |         | RBS1-2283 |
| - MAC-d PDU size                          |           | 148                                             |         | RBS1-2284 |
| - MAC-d PDU size index                    |           | 0                                               |         | RBS1-2285 |
| - MAC-hs queue Id                         |           | 3 (for second DTCH)                             |         | RBS1-2286 |
| - MAC-d Flow Identity                     |           | 3                                               |         | RBS1-2287 |
| - T1                                      |           | 120                                             |         | RBS1-2288 |
| - MAC-hs window size                      |           | 16                                              |         | RBS1-2289 |
| - MAC-d PDU size Info                     |           |                                                 |         | RBS1-2290 |
| - MAC-d PDU size                          |           | 112                                             |         | RBS1-2291 |
| - MAC-d PDU size index                    |           | 0                                               |         | RBS1-2292 |
| - MAC-d PDU size                          |           | 144                                             |         | RBS1-2293 |
| - MAC-d PDU size index                    |           | 1                                               |         | RBS1-2294 |
| - MAC-d PDU size                          |           | 160                                             |         | RBS1-2295 |
| - MAC-d PDU size index                    |           | 2                                               |         | RBS1-2296 |
| - MAC-d PDU size                          |           | 176                                             |         | RBS1-2297 |
| - MAC-d PDU size index                    |           | 3                                               |         | RBS1-2298 |
| - MAC-d PDU size                          |           | 192                                             |         | RBS1-2299 |
| - MAC-d PDU size index                    |           | 4                                               |         | RBS1-2300 |
| - MAC-d PDU size                          |           | 224                                             |         | RBS1-2301 |

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| - MAC-d PDU size index                              |           | 5                                               |         | RBS1-2302 |
| - MAC-d PDU size                                    |           | 296                                             |         | RBS1-2303 |
| - MAC-d PDU size index                              |           | 6                                               |         | RBS1-2304 |
| - MAC-d PDU size                                    |           | 344                                             |         | RBS1-2305 |
| - MAC-d PDU size index                              |           | 7                                               |         | RBS1-2306 |
| - MAC-hs queue to delete list                       |           | Not present                                     |         | RBS1-2307 |
| - DCH quality target                                |           | Not present                                     |         | RBS1-2308 |
| Added or Reconfigured DL TrCH information           | A16, A17  | 2 TrCHs (DCH for DCCH and HS-DSCH for DTCH)     | Rel-7   | RBS1-2309 |
|                                                     | , A21     |                                                 | Rel-8   | RBS1-2310 |
| - Downlink transport channel type                   |           | DCH                                             |         | RBS1-2311 |
| - DL Transport channel identity                     |           | 10                                              |         | RBS1-2312 |
| - CHOICE DL parameters                              |           | Same as UL                                      |         | RBS1-2313 |
| - Uplink transport channel type                     |           | DCH                                             |         | RBS1-2314 |
| - UL TrCH identity                                  |           | 5                                               |         | RBS1-2315 |
| - DCH quality target                                |           |                                                 |         | RBS1-2316 |
| - BLER Quality value                                |           | -20 (-2.0)                                      |         | RBS1-2317 |
| - Downlink transport channel type                   |           | HS-DSCH                                         |         | RBS1-2318 |
| - DL Transport channel identity                     |           | Not Present                                     |         | RBS1-2319 |
| - CHOICE DL parameters                              |           | HS-DSCH                                         |         | RBS1-2320 |
| - HARQ Info                                         |           |                                                 |         | RBS1-2321 |
| - Number of Processes                               |           | Reference to clause 6.11.5.4.6<br>Parameter Set |         | RBS1-2322 |
| - CHOICE <i>Memory Partitioning</i>                 |           | Implicit                                        |         | RBS1-2323 |
| - CHOICE <i>DL MAC header type</i>                  |           | MAC-ehs                                         |         | RBS1-2324 |
| - Added or reconfigured MAC-ehs<br>reordering queue |           |                                                 |         | RBS1-2325 |
| - MAC-ehs queue to add or reconfigure<br>list       |           | (one queue)                                     |         | RBS1-2326 |
| - MAC-ehs queue Id                                  |           | 0                                               |         | RBS1-2327 |
| - T1                                                |           | 50                                              |         | RBS1-2328 |
| - MAC-ehs window size                               |           | 16                                              |         | RBS1-2329 |
| - MAC-ehs queue to delete list                      |           | Not present                                     |         | RBS1-2330 |
| - DCH quality target                                |           | Not present                                     |         | RBS1-2331 |
| Added or Reconfigured DL TrCH information           | A16a      | 1 TrCH (HS-DSCH for DTCH and DCCH)              |         | RBS1-2332 |
| - Downlink transport channel type                   |           | HS-DSCH                                         |         | RBS1-2333 |
| - DL Transport channel identity                     |           | Not Present                                     |         | RBS1-2334 |
| - CHOICE DL parameters                              |           | HS-DSCH                                         |         | RBS1-2335 |
| - HARQ Info                                         |           |                                                 |         | RBS1-2336 |
| - Number of Processes                               |           | Reference to clause 6.11.5.4.6<br>Parameter Set |         | RBS1-2337 |
| - CHOICE <i>Memory Partitioning</i>                 |           | Implicit                                        |         | RBS1-2338 |
| - CHOICE <i>DL MAC header type</i>                  |           | MAC-ehs                                         |         | RBS1-2339 |
| - Added or reconfigured MAC-ehs<br>reordering queue |           |                                                 |         | RBS1-2340 |
| - MAC-hs queue to add or reconfigure<br>list        |           | (two queues)                                    |         | RBS1-2341 |
| - MAC-ehs queue Id                                  |           | 0 (for DTCH)                                    |         | RBS1-2342 |
| - T1                                                |           | 50                                              |         | RBS1-2343 |
| - MAC-ehs window size                               |           | 16                                              |         | RBS1-2344 |
| - MAC-ehs queue Id                                  |           | 1 (for DCCH)                                    |         | RBS1-2345 |
| - T1                                                |           | 50                                              |         | RBS1-2346 |
| - MAC-hs window size                                |           | 16                                              |         | RBS1-2347 |
| - MAC-ehs queue to delete list                      |           | Not present                                     |         | RBS1-2348 |
| - DCH quality target                                |           | Not present                                     |         | RBS1-2349 |
| Added or Reconfigured DL TrCH information list      | A18       | 1 TrCH (HS-DSCH for DCCH and DTCH)              | Rel-8   | RBS1-2350 |
| - Downlink transport channel type                   |           | HS-DSCH                                         |         | RBS1-2351 |
| - DL Transport channel identity                     |           | Not Present                                     |         | RBS1-2352 |
| - CHOICE DL parameters                              |           | HS-DSCH                                         |         | RBS1-2353 |
| - HARQ Info                                         |           |                                                 |         | RBS1-2354 |
| - Number of Processes                               |           | Reference to clause 6.11 Parameter<br>Set       |         | RBS1-2355 |



| Information Element                              | Condition | Value/remark                                 | Version | Index     |
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| - CHOICE <i>Memory Partitioning</i>              |           | Implicit                                     |         | RBS1-2356 |
| - CHOICE <i>DL MAC header type</i>               |           | MAC-ehs                                      |         | RBS1-2357 |
| - Added or reconfigured MAC-ehs reordering queue |           |                                              |         | RBS1-2358 |
| - MAC-ehs queue to add or reconfigure list       |           | (two queue)                                  |         | RBS1-2359 |
| - MAC-ehs queue Id                               |           | 0 (for DCCH)                                 |         | RBS1-2360 |
| - T1                                             |           | 50                                           |         | RBS1-2361 |
| - MAC-ehs window size                            |           | 16                                           |         | RBS1-2362 |
| - MAC-ehs queue Id                               |           | 1 (for DTCH)                                 |         | RBS1-2363 |
| - T1                                             |           | 50                                           |         | RBS1-2364 |
| - MAC-ehs window size                            |           | 16                                           |         | RBS1-2365 |
| - DCH quality target                             |           | Not present                                  |         | RBS1-2366 |
| Added or Reconfigured DL TrCH information        | A22       | DCH for DCCH and HS-DSCH for 3 DTCHs         | Rel-8   | RBS1-2367 |
| - Downlink transport channel type                |           | DCH                                          |         | RBS1-2368 |
| - DL Transport channel identity                  |           | 10                                           |         | RBS1-2369 |
| - CHOICE DL parameters                           |           | Explicit                                     |         | RBS1-2370 |
| - TFS                                            |           |                                              |         | RBS1-2371 |
| - CHOICE Transport channel type                  |           | Dedicated transport channels                 |         | RBS1-2372 |
| - Dynamic Transport format information           |           |                                              |         | RBS1-2373 |
| - RLC Size                                       |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2374 |
| - Number of TBs and TTI List                     |           | (This IE is repeated for TFI number.)        |         | RBS1-2375 |
| - Transmission Time Interval                     |           | Not Present                                  |         | RBS1-2376 |
| - Number of Transport blocks                     |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2377 |
| - CHOICE Logical channel list                    |           | All                                          |         | RBS1-2378 |
| - Semi-static Transport Format information       |           |                                              |         | RBS1-2379 |
| - Transmission time interval                     |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2380 |
| - Type of channel coding                         |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2381 |
| - Coding Rate                                    |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2382 |
| - Rate matching attribute                        |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2383 |
| - CRC size                                       |           | Reference to clause 6.11 Parameter Set       |         | RBS1-2384 |
| - DCH quality target                             |           |                                              |         | RBS1-2385 |
| - BLER Quality value                             |           | -20 (-2.0)                                   |         | RBS1-2386 |
| - Downlink transport channel type                |           | HS-DSCH                                      |         | RBS1-2387 |
| - DL Transport channel identity                  |           | Not Present                                  |         | RBS1-2388 |
| - CHOICE DL parameters                           |           | HS-DSCH                                      |         | RBS1-2389 |
| - HARQ Info                                      |           |                                              |         | RBS1-2390 |
| - Number of Processes                            |           | Reference to clause 6.11.5.4.6 Parameter Set |         | RBS1-2391 |
| - CHOICE <i>Memory Partitioning</i>              |           | Implicit                                     |         | RBS1-2392 |
| - CHOICE <i>DL MAC header type</i>               |           | MAC-ehs                                      |         | RBS1-2393 |
| - Added or reconfigured MAC-ehs reordering queue |           |                                              |         | RBS1-2394 |
| - MAC-ehs queue to add or reconfigure list       |           | (three queues)                               |         | RBS1-2395 |
|                                                  |           |                                              |         | RBS1-2396 |
| - MAC-ehs queue Id                               |           | 2 (for first DTCH)                           |         | RBS1-2397 |
| - T1                                             |           | 50                                           |         | RBS1-2398 |
| - MAC-ehs window size                            |           | 16                                           |         | RBS1-2399 |
| - MAC-ehs queue Id                               |           | 3 (for second DTCH)                          |         | RBS1-2400 |
| - T1                                             |           | 50                                           |         | RBS1-2401 |
| - MAC-ehs window size                            |           | 16                                           |         | RBS1-2402 |
| - MAC-ehs queue Id                               |           | 4 (for third DTCH)                           |         | RBS1-2403 |
| - T1                                             |           | 50                                           |         | RBS1-2404 |
| - MAC-ehs window size                            |           | 16                                           |         | RBS1-2405 |
| - DCH quality target                             |           | Not present                                  |         | RBS1-2406 |

| Information Element                                 | Condition                                                                                                                                          | Value/remark                                    | Version | Index      |
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| Added or Reconfigured DL TrCH information           | A23                                                                                                                                                | HS-DSCH for 2 DTCHs and DCCH                    | Rel-8   | RBS1-2407  |
| - Downlink transport channel type                   |                                                                                                                                                    | HS-DSCH                                         |         | RBS1-2408  |
| - DL Transport channel identity                     |                                                                                                                                                    | Not Present                                     |         | RBS1-2409  |
| - CHOICE DL parameters                              |                                                                                                                                                    | HS-DSCH                                         |         | RBS1-2410  |
| - HARQ Info                                         |                                                                                                                                                    |                                                 |         | RBS1-2411  |
| - Number of Processes                               |                                                                                                                                                    | Reference to clause 6.11.5.4.6<br>Parameter Set |         | RBS1-2412  |
| - CHOICE <i>Memory Partitioning</i>                 |                                                                                                                                                    | Implicit                                        |         | RBS1-2413  |
| - CHOICE <i>DL MAC header type</i>                  |                                                                                                                                                    | MAC-ehs                                         |         | RBS1-2414  |
| - Added or reconfigured MAC-ehs<br>reordering queue |                                                                                                                                                    |                                                 |         | RBS1-2415  |
| - MAC-ehs queue to add or reconfigure<br>list       |                                                                                                                                                    | (two queues)                                    |         | RBS1-2416  |
| - MAC-ehs queue Id                                  |                                                                                                                                                    | 0 (for first DTCH)                              |         | RBS1-2417  |
| - T1                                                |                                                                                                                                                    | 50                                              |         | RBS1-2418  |
| - MAC-ehs window size                               |                                                                                                                                                    | 16                                              |         | RBS1-2419  |
| - MAC-ehs queue Id                                  |                                                                                                                                                    | 1 (for DCCH)                                    |         | RBS1-2420  |
| - T1                                                |                                                                                                                                                    | 50                                              |         | RBS1-2421  |
| - MAC-ehs window size                               |                                                                                                                                                    | 16                                              |         | RBS1-2422  |
| - DCH quality target                                |                                                                                                                                                    | Not present                                     |         | RBS1-2423  |
| Added or Reconfigured DL TrCH information           | A24                                                                                                                                                | 1 TrCH (HS-DSCH for DTCH and<br>DCCH)           | Rel-8   | RBS1-2424  |
| - Downlink transport channel type                   |                                                                                                                                                    | HS-DSCH                                         |         | RBS1-2425  |
| - DL Transport channel identity                     |                                                                                                                                                    | Not Present                                     |         | RBS1-2426  |
| - CHOICE DL parameters                              |                                                                                                                                                    | HS-DSCH                                         |         | RBS1-2427  |
| - HARQ Info                                         |                                                                                                                                                    |                                                 |         | RBS1-2428  |
| - Number of Processes                               |                                                                                                                                                    | Reference to clause 6.11.5.4.6<br>Parameter Set |         | RBS1-2429  |
| - CHOICE <i>Memory Partitioning</i>                 |                                                                                                                                                    | Implicit                                        |         | RBS1-2430  |
| - CHOICE <i>DL MAC header type</i>                  |                                                                                                                                                    | MAC-ehs                                         |         | RBS1-2431  |
| - Added or reconfigured MAC-ehs<br>reordering queue |                                                                                                                                                    |                                                 |         | RBS1-2432  |
| - MAC-hs queue to add or reconfigure<br>list        |                                                                                                                                                    | (two queues)                                    |         | RBS1-2433  |
| - MAC-ehs queue Id                                  |                                                                                                                                                    | 2 (for DTCH)                                    |         | RBS1-2434  |
| - T1                                                |                                                                                                                                                    | 50                                              |         | RBS1-2435  |
| - MAC-ehs window size                               |                                                                                                                                                    | 16                                              |         | RBS1-2436  |
| - MAC-ehs queue Id                                  |                                                                                                                                                    | 3 (for DCCH)                                    |         | RBS1-2437  |
| - T1                                                |                                                                                                                                                    | 50                                              |         | RBS1-2438  |
| - MAC-hs window size                                |                                                                                                                                                    | 16                                              |         | RBS1-2439  |
| - MAC-ehs queue to delete list                      |                                                                                                                                                    | Not present                                     |         | RBS1-2440  |
| - DCH quality target                                |                                                                                                                                                    | Not present                                     |         | RBS1-2441  |
| Frequency info                                      | A1, A2, A3,<br>A4, A5, A7,<br>A8<br>, A9, A10<br>, A11, A12,<br>A13, A14,<br>A15, A16,<br>A16a, A17,<br>A18, A19,<br>A20, A21,<br>A22, A23,<br>A24 |                                                 |         | RBS1-2442  |
|                                                     |                                                                                                                                                    |                                                 | Rel-5   | RBS1-2443  |
|                                                     |                                                                                                                                                    |                                                 | Rel-7   | RBS1-2444  |
|                                                     |                                                                                                                                                    |                                                 | Rel-8   | RBS1-2445  |
| - Choice mode                                       |                                                                                                                                                    | TDD                                             |         | RBS1-2446  |
| - UARFCN (Nt)                                       |                                                                                                                                                    | Reference to clause 5.1 Test<br>frequencies     |         | RBS1-2447  |
| Frequency info                                      | A6                                                                                                                                                 | Not Present                                     |         | RBS1-2448  |
| Multi-frequency Info                                |                                                                                                                                                    | Not Present                                     | Rel-7   | RBS1-2448a |
| Control Channel DRX information                     | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8, A9,<br>A10, A11,<br>A12, A13,                                                                                | Not Present                                     | Rel-8   | RBS1-2448b |

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|                                               | A14, A15,<br>A16, A16a,<br>A17, A19,<br>A22, A23,<br>A24                                                                        |                                   |         |           |
| Control Channel DRX information               | , A20                                                                                                                           |                                   | Rel-8   | RBS1-2449 |
| - CHOICE <i>Control Channel DRX operation</i> |                                                                                                                                 | New Control Channel DRX operation |         | RBS1-2450 |
| - HS-SCCH DRX information                     |                                                                                                                                 |                                   |         | RBS1-2451 |
| - HS-SCCH DRX cycle                           |                                                                                                                                 | 8                                 |         | RBS1-2452 |
| - Inactivity Threshold for HS-SCCH DRX cycle  |                                                                                                                                 | 16                                |         | RBS1-2453 |
| - HS-SCCH DRX Offset                          |                                                                                                                                 | 0                                 |         | RBS1-2454 |
| - E-AGCH DRX Information                      |                                                                                                                                 |                                   |         | RBS1-2455 |
| - CHOICE <i>E-AGCH DRX information type</i>   |                                                                                                                                 | Same as HS-SCCH                   |         | RBS1-2456 |
| - Enabling Delay                              |                                                                                                                                 | 32                                |         | RBS1-2457 |
| SPS Information                               | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8, A9,<br>A10, A11,<br>A12, A13,<br>A14, A15,<br>A16, A16a,<br>A17, A20,<br>A22, A23,<br>A24 | Not Present                       | Rel-8   | RBS1-2458 |
| SPS Information                               | , A19                                                                                                                           |                                   | Rel-8   | RBS1-2459 |
| - E-DCH SPS information                       |                                                                                                                                 |                                   |         | RBS1-2460 |
| - CHOICE <i>E-DCH SPS operation</i>           |                                                                                                                                 | New E-DCH SPS operation           |         | RBS1-2461 |
| - E-HICH Information                          |                                                                                                                                 |                                   |         | RBS1-2462 |
| - CHOICE Configuration Mode                   |                                                                                                                                 | Implicit                          |         | RBS1-2463 |
| - EI                                          |                                                                                                                                 | 0                                 |         | RBS1-2464 |
| - Signature Sequence Group Index              |                                                                                                                                 | 0                                 |         | RBS1-2465 |
| - Transmission Pattern List                   |                                                                                                                                 | 2 Transmission Patterns           |         | RBS1-2466 |
| - Repetition period                           |                                                                                                                                 | 4                                 |         | RBS1-2467 |
| - Repetition length                           |                                                                                                                                 | 1                                 |         | RBS1-2468 |
| - Repetition period                           |                                                                                                                                 | 8                                 |         | RBS1-2469 |
| - Repetition length                           |                                                                                                                                 | 1                                 |         | RBS1-2470 |
| - HS-DSCH SPS information                     |                                                                                                                                 |                                   |         | RBS1-2471 |
| - CHOICE <i>HS-DSCH SPS operation</i>         |                                                                                                                                 | New HS-DSCH SPS operation         |         | RBS1-2472 |
| - Transport Block Size List                   |                                                                                                                                 | 2                                 |         | RBS1-2473 |
| - Transport Block Size Index                  |                                                                                                                                 | 5                                 |         | RBS1-2474 |
| - Transport Block Size Index                  |                                                                                                                                 | 20                                |         | RBS1-2475 |
| - Receive Pattern List                        |                                                                                                                                 | 2 Receive Patterns                |         | RBS1-2476 |
| - Repetition period                           |                                                                                                                                 | 4                                 |         | RBS1-2477 |
| - Repetition length                           |                                                                                                                                 | 1                                 |         | RBS1-2478 |
| - Repetition period                           |                                                                                                                                 | 8                                 |         | RBS1-2479 |
| - Repetition length                           |                                                                                                                                 | 1                                 |         | RBS1-2480 |
| - HARQ Info for Semi-Persistent Scheduling    |                                                                                                                                 |                                   |         | RBS1-2481 |
| - Number of Processes                         |                                                                                                                                 | 4                                 |         | RBS1-2482 |
| - Process Memory size                         |                                                                                                                                 | 16000                             |         | RBS1-2483 |
| - HS-SICH List                                |                                                                                                                                 | 1                                 |         | RBS1-2484 |
| - CHOICE Configuration Mode                   |                                                                                                                                 | Implicit                          |         | RBS1-2485 |
| - HS-SCCH Index                               |                                                                                                                                 | 0                                 |         | RBS1-2486 |
| MIMO parameters                               | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8, A9,<br>A10, A11,<br>A12, A13,<br>A14, A15,<br>A16, A17                                    | Not Present                       | Rel-8   | RBS1-2487 |
| MIMO parameters                               | , A21                                                                                                                           | start                             | Rel-8   | RBS1-2488 |
| - CHOICE mode                                 |                                                                                                                                 | TDD                               |         | RBS1-2489 |
| - CHOICE TDD option                           |                                                                                                                                 | 1.28Mcps TDD                      |         | RBS1-2490 |

| Information Element                     | Condition                                      | Value/remark                                                                                                                  | Version | Index     |
|-----------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------|-----------|
| - MIMO SF Mode for HS-PDSCH dual stream |                                                | SF1,                                                                                                                          |         | RBS1-2491 |
| - HS-SICH Reference Signal Info         |                                                | Not Present                                                                                                                   |         | RBS1-2492 |
| MU-MIMO info                            |                                                | Not Present                                                                                                                   | Rel-10  |           |
| Maximum allowed UL TX power             | A1, A2, A3, A4, A7, A8, A9, A10                | 33dBm                                                                                                                         |         | RBS1-2493 |
|                                         | , A11, A12, A13, A14, A15, A16, A16a, A17,     |                                                                                                                               | Rel-5   | RBS1-2494 |
|                                         | A18, A19, A20, A21, A22, A23, A24              |                                                                                                                               | Rel-7   | RBS1-2495 |
|                                         |                                                |                                                                                                                               | Rel-8   | RBS1-2496 |
| Maximum allowed UL TX power             | A5, A6                                         | Not Present                                                                                                                   |         | RBS1-2497 |
| CHOICE <i>channel requirement</i>       | A5, A6                                         | Not Present                                                                                                                   |         | RBS1-2498 |
| CHOICE <i>channel requirement</i>       | A1, A2, A3, A4, A7, A8, A9, A10, A16, A17, A21 | Uplink DPCH info                                                                                                              |         | RBS1-2499 |
|                                         |                                                |                                                                                                                               | Rel-5   | RBS1-2500 |
|                                         |                                                |                                                                                                                               | Rel-7   | RBS1-2501 |
|                                         |                                                |                                                                                                                               |         | RBS1-2502 |
| - Uplink DPCH power control info        |                                                |                                                                                                                               |         | RBS1-2503 |
| - CHOICE mode                           |                                                | TDD                                                                                                                           |         | RBS1-2504 |
| - UL target SIR                         |                                                | 25 dB                                                                                                                         |         | RBS1-2505 |
| - CHOICE <i>UL OL PC info</i>           |                                                |                                                                                                                               |         | RBS1-2507 |
| - Broadcast UL OL PC info               |                                                | Null                                                                                                                          |         | RBS1-2508 |
| - Uplink Timing Advance Control         |                                                | This IE is not present, except when the message is used for inter-RAT handover, in which case the content is specified below. |         | RBS1-2509 |

| Information Element                 | Condition                     | Value/remark                                                                                                  | Version | Index     |
|-------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------|---------|-----------|
| - CHOICE Timing Advance             |                               | Enabled                                                                                                       |         | RBS1-2510 |
| - CHOICE TDD option                 |                               | 1.28 Mcps TDD                                                                                                 |         | RBS1-2511 |
| - Uplink synchronisation parameters |                               |                                                                                                               |         | RBS1-2512 |
| - Uplink synchronisation step size  |                               | 1                                                                                                             |         | RBS1-2513 |
| - Uplink synchronisation frequency  |                               | 1                                                                                                             |         | RBS1-2514 |
| - Synchronisation parameters        |                               |                                                                                                               |         | RBS1-2515 |
| - SYNC_UL codes bitmap              |                               | '11111111'B                                                                                                   |         | RBS1-2516 |
| - FPACH info                        |                               |                                                                                                               |         | RBS1-2517 |
| - timeslot                          |                               | 0                                                                                                             |         | RBS1-2518 |
| - channelisationCode                |                               | cc16_15                                                                                                       |         | RBS1-2519 |
| - midambleShiftAndBurstType         |                               |                                                                                                               |         | RBS1-2520 |
| - midambleAllocationMode            |                               | NULL                                                                                                          |         | RBS1-2521 |
| - midambleConfiguration             |                               | 4                                                                                                             |         | RBS1-2522 |
| - Wi                                |                               | 4                                                                                                             |         | RBS1-2523 |
| - PRXUpPCHdes                       |                               | 15                                                                                                            |         | RBS1-2524 |
| - SYNC_UL procedure                 |                               |                                                                                                               |         | RBS1-2525 |
| - Max SYNC_UL Transmissions         |                               | 8                                                                                                             |         | RBS1-2526 |
| - Mmax                              |                               | 2                                                                                                             |         | RBS1-2527 |
| - UL CCTrCH List                    |                               |                                                                                                               |         | RBS1-2528 |
| - TFCS ID                           |                               | 1                                                                                                             |         | RBS1-2529 |
| - UL Target SIR                     |                               | 25 dB                                                                                                         |         | RBS1-2530 |
| - Time info                         |                               |                                                                                                               |         | RBS1-2531 |
| - Activation time                   |                               | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                              |         | RBS1-2532 |
| - Duration                          |                               | Infinite                                                                                                      |         | RBS1-2533 |
| - Common timeslot info              |                               |                                                                                                               |         | RBS1-2534 |
| - 2 <sup>nd</sup> interleaving mode |                               | Default value is "Frame"                                                                                      |         | RBS1-2535 |
| - TFCI coding                       |                               | Reference to clause 6 Parameter set                                                                           |         | RBS1-2536 |
| - Puncturing limit                  |                               | Reference to clause 6 Parameter set                                                                           |         | RBS1-2537 |
| - Repetition period                 |                               | 1                                                                                                             |         | RBS1-2538 |
| - Repetition length                 |                               |                                                                                                               |         | RBS1-2539 |
| - Uplink DPCH timeslots and code    |                               |                                                                                                               |         | RBS1-2540 |
| - Dynamic SF usage                  |                               | FALSE                                                                                                         |         | RBS1-2541 |
| - First individual timeslot info    |                               |                                                                                                               |         | RBS1-2542 |
| - Timeslot number                   |                               |                                                                                                               |         | RBS1-2543 |
| - CHOICE TDD option                 |                               | 1.28 Mcps TDD                                                                                                 |         | RBS1-2544 |
| - Timeslot number                   |                               | 1 OR 2 OR 3                                                                                                   |         | RBS1-2545 |
| - TFCI existence                    |                               | TRUE                                                                                                          |         | RBS1-2546 |
| - Midamble shift and burst type     |                               |                                                                                                               |         | RBS1-2547 |
| - CHOICE TDD option                 |                               | 1.28 Mcps TDD                                                                                                 |         | RBS1-2548 |
| - Midamble allocation mode          |                               | Default midamble                                                                                              |         | RBS1-2549 |
| - Midamble configuration            |                               | 8 (k=16)                                                                                                      |         | RBS1-2550 |
| - Midamble Shift                    |                               | Not Present                                                                                                   |         | RBS1-2551 |
| - CHOICE TDD option                 |                               | 1.28 Mcps TDD                                                                                                 |         | RBS1-2552 |
| - Modulation                        |                               | QPSK                                                                                                          |         | RBS1-2553 |
| - SS-TPC Symbols                    |                               | 1                                                                                                             |         | RBS1-2554 |
| - Additional TPC-SS Symbols         |                               | Not present                                                                                                   |         | RBS1-2555 |
| - First timeslot Code List          |                               | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |         | RBS1-2556 |
| - channelisation codes              |                               | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.               |         | RBS1-2557 |
| - CHOICE more timeslots             |                               | No more timeslots                                                                                             |         | RBS1-2558 |
| - UL CCTrCH List to Remove          |                               | Not present                                                                                                   |         | RBS1-2559 |
| Uplink DPCH info                    | A11, A12, A13, A14, A15, A16a | Uplink DPCH info                                                                                              | Rel-7   | RBS1-2560 |
|                                     | A19, A20, A22, A23, A24       |                                                                                                               | Rel-8   | RBS1-2561 |
| - Uplink DPCH power control info    |                               |                                                                                                               |         | RBS1-2562 |

| Information Element                 | Condition | Value/remark                                                                                                                  | Version | Index     |
|-------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------|---------|-----------|
| - CHOICE mode                       |           | TDD                                                                                                                           |         | RBS1-2563 |
| - UL target SIR                     |           | 25 dB                                                                                                                         |         | RBS1-2564 |
| - CHOICE UL OL PC info              |           |                                                                                                                               |         | RBS1-2565 |
| - Broadcast UL OL PC info           |           | Null                                                                                                                          |         | RBS1-2566 |
| - Uplink Timing Advance Control     |           | This IE is not present, except when the message is used for inter-RAT handover, in which case the content is specified below. |         | RBS1-2567 |
| - CHOICE Timing Advance             |           | Enabled                                                                                                                       |         | RBS1-2568 |
| - CHOICE TDD option                 |           | 1.28 Mcps TDD                                                                                                                 |         | RBS1-2569 |
| - Uplink synchronisation parameters |           |                                                                                                                               |         | RBS1-2570 |
| - Uplink synchronisation step size  |           | 1                                                                                                                             |         | RBS1-2571 |
| - Uplink synchronisation frequency  |           | 1                                                                                                                             |         | RBS1-2572 |
| - Synchronisation parameters        |           |                                                                                                                               |         | RBS1-2573 |
| - SYNC_UL codes bitmap              |           | '11111111'B                                                                                                                   |         | RBS1-2574 |
| - FPACH info                        |           |                                                                                                                               |         | RBS1-2575 |
| - timeslot                          |           | 0                                                                                                                             |         | RBS1-2576 |
| - channelisationCode                |           | cc16_15                                                                                                                       |         | RBS1-2577 |
| - midambleShiftAndBurstType         |           |                                                                                                                               |         | RBS1-2578 |
| - midambleAllocationMode            |           | NULL                                                                                                                          |         | RBS1-2579 |
| - midambleConfiguration             |           | 4                                                                                                                             |         | RBS1-2580 |
| - wi                                |           | 4                                                                                                                             |         | RBS1-2581 |
| - PRX <sub>UpPCHdes</sub>           |           | 15                                                                                                                            |         | RBS1-2582 |
| - SYNC_UL procedure                 |           |                                                                                                                               |         | RBS1-2583 |
| - Max SYNC_UL Transmissions         |           | 8                                                                                                                             |         | RBS1-2584 |
| - Mmax                              |           | 2                                                                                                                             |         | RBS1-2585 |
| - UL CCTrCH List                    |           |                                                                                                                               |         | RBS1-2586 |
| - TFCS ID                           |           | 1                                                                                                                             |         | RBS1-2587 |
| - UL Target SIR                     |           | 25 dB                                                                                                                         |         | RBS1-2588 |
| - Time info                         |           |                                                                                                                               |         | RBS1-2589 |
| - Activation time                   |           | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$                                                                     |         | RBS1-2590 |
| - Duration                          |           | Infinite                                                                                                                      |         | RBS1-2591 |
| - Common timeslot info              |           |                                                                                                                               |         | RBS1-2592 |
| - 2nd interleaving mode             |           | Default value is "Frame"                                                                                                      |         | RBS1-2593 |
| - TFCI coding                       |           | Reference to clause 6 Parameter set                                                                                           |         | RBS1-2594 |
| - Puncturing limit                  |           | Reference to clause 6 Parameter set                                                                                           |         | RBS1-2595 |
| - Repetition period                 |           | 1                                                                                                                             |         | RBS1-2596 |
| - Repetition length                 |           | 1                                                                                                                             |         | RBS1-2597 |
| - Uplink DPCH timeslots and code    |           |                                                                                                                               |         | RBS1-2598 |
| - Dynamic SF usage                  |           | FALSE                                                                                                                         |         | RBS1-2599 |
| - First individual timeslot info    |           |                                                                                                                               |         | RBS1-2600 |
| - Timeslot number                   |           |                                                                                                                               |         | RBS1-2601 |
| - CHOICE TDD option                 |           | 1.28 Mcps TDD                                                                                                                 |         | RBS1-2602 |
| - Timeslot number                   |           | 1 OR 2 OR 3                                                                                                                   |         | RBS1-2603 |
| - TFCI existence                    |           | TRUE                                                                                                                          |         | RBS1-2604 |
| - Midamble shift and burst type     |           |                                                                                                                               |         | RBS1-2605 |
| - CHOICE TDD option                 |           | 1.28 Mcps TDD                                                                                                                 |         | RBS1-2606 |
| - Midamble allocation mode          |           | Default midamble                                                                                                              |         | RBS1-2607 |
| - Midamble configuration            |           | 8 (k=16)                                                                                                                      |         | RBS1-2608 |
| - Midamble Shift                    |           | Not Present                                                                                                                   |         | RBS1-2609 |
| - CHOICE TDD option                 |           | 1.28 Mcps TDD                                                                                                                 |         | RBS1-2610 |
| - Modulation                        |           | QPSK                                                                                                                          |         | RBS1-2611 |
| - SS-TPC Symbols                    |           | 1                                                                                                                             |         | RBS1-2612 |
| - Additional TPC-SS Symbols         |           | Not present                                                                                                                   |         | RBS1-2613 |
| - First timeslot Code List          |           | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set.                 |         | RBS1-2614 |
| - channelisation codes              |           | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.                               |         | RBS1-2615 |
| - CHOICE more timeslots             |           | No more timeslots                                                                                                             |         | RBS1-2616 |

| Information Element                     | Condition                          | Value/remark     | Version | Index     |
|-----------------------------------------|------------------------------------|------------------|---------|-----------|
| - UL CCTrCH List to Remove              |                                    | Not present      |         | RBS1-2617 |
| E-DCH Info                              | A11, A12, A13, A14, A15, A16a      |                  | Rel-7   | RBS1-2618 |
|                                         | , A18, A19, A20, A22, A23, A24     |                  | Rel-8   | RBS1-2619 |
| - MAC-es/e reset indicator              |                                    | TRUE             |         | RBS1-2620 |
| - CHOICE <i>mode</i>                    |                                    | TDD              |         | RBS1-2621 |
| - E-RUCCH info                          |                                    |                  |         | RBS1-2622 |
| - CHOICE TDD mode                       |                                    | 1.28 Mcps TDD    |         | RBS1-2623 |
| - T-RUCCH                               |                                    | 200              |         | RBS1-2624 |
| - N-RUCCH                               |                                    | 3                |         | RBS1-2625 |
| - T-WAIT                                |                                    | 40               |         | RBS1-2626 |
| - T-SI                                  |                                    | 40               |         | RBS1-2627 |
| - Extended Estimation Window            |                                    | Not present      |         | RBS1-2628 |
| - PRACH Information                     |                                    | Not present      |         | RBS1-2629 |
| - E-PUCH info                           |                                    |                  |         | RBS1-2630 |
| - E-TFCS information                    |                                    |                  |         | RBS1-2631 |
| - Reference Beta Information QPSK list  |                                    |                  |         | RBS1-2632 |
| - Reference Code Rate                   |                                    | 2                |         | RBS1-2633 |
| - Reference Beta                        |                                    | -10              |         | RBS1-2634 |
| - Reference Code Rate                   |                                    | 8                |         | RBS1-2635 |
| - Reference Beta                        |                                    | -3               |         | RBS1-2636 |
| - Reference Beta Information 16QAM list |                                    |                  |         | RBS1-2637 |
| - Reference Code Rate                   |                                    | 2                |         | RBS1-2638 |
| - Reference Beta                        |                                    | -5               |         | RBS1-2639 |
| - Reference Code Rate                   |                                    | 8                |         | RBS1-2640 |
| - Reference Beta                        |                                    | 2                |         | RBS1-2641 |
| - CHOICE TDD mode                       |                                    | 1.28 Mcps TDD    |         | RBS1-2642 |
| - SNPL Reporting Type                   |                                    | type1            |         | RBS1-2643 |
| - PRXdes_base                           |                                    | -112             |         | RBS1-2644 |
| - Beacon PL Est                         |                                    | FALSE            |         | RBS1-2645 |
| - TPC step size                         |                                    | 1                |         | RBS1-2646 |
| - Uplink synchronisation parameters     |                                    | Not present      |         | RBS1-2647 |
| - E-PUCH TS configuration list          |                                    |                  |         | RBS1-2648 |
| - TS number                             |                                    | 3                |         | RBS1-2649 |
| - Midamble shift and burst type         |                                    |                  |         | RBS1-2650 |
| - Midamble Allocation Mode              |                                    | Default midamble |         | RBS1-2651 |
| - Midamble configuration                |                                    | 8 (k=16)         |         | RBS1-2652 |
| - Midamble Shift                        |                                    | Not Present      |         | RBS1-2653 |
| - Minimum allowed code rate             |                                    | 0                |         | RBS1-2654 |
| - Maximum allowed code rate             |                                    | 63               |         | RBS1-2655 |
| - Power Offset for Scheduling Info      |                                    | Not Present      |         | RBS1-2656 |
| - Non-scheduled transmission grant info | A11, A16a, A19, A20, A22, A23, A24 | Not Present      |         | RBS1-2657 |
|                                         |                                    |                  | Rel-8   | RBS1-2658 |
| - Non-scheduled transmission grant info | A12, A13, A14, A15                 |                  |         | RBS1-2659 |
| - CHOICE <i>TDD Option</i>              |                                    | 1.28 Mcps TDD    |         | RBS1-2660 |
| - NE-UCCH                               |                                    | 1                |         | RBS1-2661 |
| - NE-HICH                               |                                    | 4                |         | RBS1-2662 |
| - Timeslot Resource Related Information |                                    | 00100            |         | RBS1-2663 |
| - Power Resource Related Information    |                                    | 1                |         | RBS1-2664 |
| - Activation Time                       |                                    | 0                |         | RBS1-2665 |
| - Subframe number                       |                                    | 0                |         | RBS1-2666 |
| - Repetition period and length          |                                    |                  |         | RBS1-2667 |
| - Repetition period                     |                                    | 2                |         | RBS1-2668 |
| - Repetition Length                     |                                    | 1                |         | RBS1-2669 |
| - Code Resource Information             |                                    | 8/1              |         | RBS1-2670 |
| - E-HICH Information                    |                                    |                  |         | RBS1-2671 |
| - Timeslot number                       |                                    | 6                |         | RBS1-2672 |

| Information Element                             | Condition                                           | Value/remark     | Version | Index     |
|-------------------------------------------------|-----------------------------------------------------|------------------|---------|-----------|
| - Channelisation code                           |                                                     | 16/15            |         | RBS1-2673 |
| - Midamble Allocation mode                      |                                                     | Default midamble |         | RBS1-2674 |
| - Midamble configuration                        |                                                     | 8 (k=16)         |         | RBS1-2675 |
| - Signature Sequence Group Index                |                                                     | 0                |         | RBS1-2676 |
| Multi-carrier E-DCH Info for LCR TDD            |                                                     | Not Present      | Rel-10  | RBS1-2677 |
| CHOICE Mode                                     | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8                | TDD              |         | RBS1-2678 |
|                                                 | , A9, A10                                           |                  | Rel-5   | RBS1-2679 |
| Downlink HS-PDSCH Information                   | A1, A2, A3,<br>A4, A5, A6,<br>A7, A8                | Not Present      | Rel-5   | RBS1-2680 |
| Downlink HS-PDSCH Information                   | A9, A10                                             |                  | Rel-5   | RBS1-2681 |
|                                                 | , A11, A12,<br>A13, A14,<br>A15, A16,<br>A16a, A17, |                  | Rel-7   | RBS1-2682 |
|                                                 | A18, A19,<br>A20, A21,<br>A22, A23,<br>A24          |                  | Rel-8   | RBS1-2683 |
| - HS-SCCH Info                                  |                                                     |                  |         | RBS1-2684 |
| - CHOICE mode                                   |                                                     | TDD              |         | RBS1-2685 |
| - CHOICE TDD option                             |                                                     | 1.28 Mcps        |         | RBS1-2686 |
| - HS-SCCH Set Configuration                     |                                                     |                  |         | RBS1-2687 |
| - Timeslot number                               |                                                     | 6                |         | RBS1-2688 |
| - First Channelisation code                     |                                                     | (16/11)          |         | RBS1-2689 |
| - Second Channelisation code                    |                                                     | (16/12)          |         | RBS1-2690 |
| - Midamble Allocation mode                      |                                                     | Default midamble |         | RBS1-2691 |
| - Midamble configuration                        |                                                     | 8 (k=16)         |         | RBS1-2692 |
| - BLER target                                   |                                                     | -2.0             |         | RBS1-2693 |
| - HS-SICH configuration                         |                                                     |                  |         | RBS1-2694 |
| - Timeslot number                               |                                                     | 1                |         | RBS1-2695 |
| - Channelisation code                           |                                                     | (16/13)          |         | RBS1-2696 |
| - Midamble Allocation mode                      |                                                     | Default midamble |         | RBS1-2697 |
| - Midamble configuration                        |                                                     | 8 (k=16)         |         | RBS1-2698 |
| - Ack-Nack Power Offset                         |                                                     | 0                |         | RBS1-2699 |
| - PRX <sub>HS-SICH</sub>                        |                                                     | -120             |         | RBS1-2700 |
| - TPC step size                                 |                                                     | 1dB              |         | RBS1-2701 |
| - CHOICE mode                                   |                                                     | TDD              |         | RBS1-2702 |
| - CHOICE TDD option                             |                                                     | 1.28 Mcps TDD    |         | RBS1-2703 |
| - HS-PDSCH Midamble Configuration               |                                                     |                  |         | RBS1-2704 |
| - Midamble Allocation Mode                      |                                                     | Default midamble |         | RBS1-2705 |
| - Midamble Configuration                        |                                                     | 8 (k=16)         |         | RBS1-2706 |
| - Midamble Shift                                |                                                     | Not present      |         | RBS1-2707 |
| Downlink information common for all radio links | A5, A6,<br>A18                                      | Not Present      |         | RBS1-2708 |
|                                                 |                                                     |                  | Rel-8   | RBS1-2709 |
| Downlink information common for all radio links | A1, A2, A3                                          |                  |         | RBS1-2710 |
| - Downlink DPCH info common for all RL          |                                                     |                  |         | RBS1-2711 |
| - Timing indication                             |                                                     | Maintain         |         | RBS1-2712 |
| - CFN-targetSFN frame offset                    |                                                     | Not Present      |         | RBS1-2713 |
| - Downlink DPCH power control information       |                                                     |                  |         | RBS1-2714 |
| - CHOICE mode                                   |                                                     | TDD              |         | RBS1-2715 |
| - TPC Step Size                                 |                                                     | 1                |         | RBS1-2716 |
| - MAC-d HFN initial value                       |                                                     | Not Present      |         | RBS1-2717 |
| - CHOICE mode                                   |                                                     | TDD              |         | RBS1-2718 |
| - CHOICE mode                                   |                                                     | TDD              |         | RBS1-2719 |
| - CHOICE TDD option                             |                                                     | 1.28 Mcps TDD    |         | RBS1-2720 |
| - TSTD indicator                                |                                                     | FALSE            |         | RBS1-2721 |
| - Default DPCH Offset Value                     |                                                     | Not Present      |         | RBS1-2722 |
| Downlink information common for all radio links | A9                                                  |                  | Rel-5   | RBS1-2723 |
|                                                 | , A11, A12,<br>A14, A15,                            |                  | Rel-7   | RBS1-2724 |



| Information Element                             | Condition              | Value/remark    | Version | Index     |
|-------------------------------------------------|------------------------|-----------------|---------|-----------|
|                                                 | A16, A17               |                 |         |           |
|                                                 | , A21, A22             |                 | Rel-8   | RBS1-2725 |
| - Downlink DPCH info common for all RL          |                        |                 |         | RBS1-2726 |
| - Timing indication                             |                        | Maintain        |         | RBS1-2727 |
| - CFN-targetSFN frame offset                    |                        | Not Present     |         | RBS1-2728 |
| - Downlink DPCH power control information       |                        |                 |         | RBS1-2729 |
| - CHOICE mode                                   |                        | TDD             |         | RBS1-2730 |
| - TPC Step Size                                 |                        | 1               |         | RBS1-2731 |
| - MAC-d HFN initial value                       |                        | Not Present     |         | RBS1-2732 |
| - CHOICE mode                                   |                        | TDD             |         | RBS1-2733 |
| - CHOICE mode                                   |                        | TDD             |         | RBS1-2734 |
| - CHOICE TDD option                             |                        | 1.28 Mcps TDD   |         | RBS1-2735 |
| - TSTD indicator                                |                        | FALSE           |         | RBS1-2736 |
| - Default DPCH Offset Value                     |                        | Not Present     |         | RBS1-2737 |
| - MAC-hs reset indicator                        |                        | TRUE            |         | RBS1-2738 |
| Downlink information common for all radio links | A4, A7, A8             |                 |         | RBS1-2739 |
| - Downlink DPCH info common for all RL          |                        |                 |         | RBS1-2740 |
| - Timing indication                             |                        | Initialize      |         | RBS1-2741 |
| - CFN-targetSFN frame offset                    |                        | Not Present     |         | RBS1-2742 |
| - Downlink DPCH power control information       |                        |                 |         | RBS1-2743 |
| - CHOICE mode                                   |                        | TDD             |         | RBS1-2744 |
| - TPC Step Size                                 |                        | 1               |         | RBS1-2745 |
| - MAC-d HFN initial value                       |                        | Not Present     |         | RBS1-2746 |
| - CHOICE mode                                   |                        | TDD             |         | RBS1-2747 |
| - CHOICE mode                                   |                        | TDD             |         | RBS1-2748 |
| - CHOICE TDD option                             |                        | 1.28 Mcps TDD   |         | RBS1-2749 |
| - TSTD indicator                                |                        | FALSE           |         | RBS1-2750 |
| - Default DPCH Offset Value                     |                        |                 |         | RBS1-2751 |
| - CHOICE mode                                   |                        | TDD             |         | RBS1-2752 |
| - Default DPCH Offset Value                     |                        | 0 Integer(0..7) |         | RBS1-2753 |
| Downlink information common for all radio links | A10                    |                 | Rel-5   | RBS1-2754 |
| - Downlink DPCH info common for all RL          |                        |                 |         | RBS1-2755 |
| - Timing indication                             |                        | Initialize      |         | RBS1-2756 |
| - CFN-targetSFN frame offset                    |                        | Not Present     |         | RBS1-2757 |
| - Downlink DPCH power control information       |                        |                 |         | RBS1-2758 |
| - CHOICE mode                                   |                        | TDD             |         | RBS1-2759 |
| - TPC Step Size                                 |                        | 1               |         | RBS1-2760 |
| - MAC-d HFN initial value                       |                        | Not Present     |         | RBS1-2761 |
| - CHOICE mode                                   |                        | TDD             |         | RBS1-2762 |
| - CHOICE mode                                   |                        | TDD             |         | RBS1-2763 |
| - CHOICE TDD option                             |                        | 1.28 Mcps TDD   |         | RBS1-2764 |
| - TSTD indicator                                |                        | FALSE           |         | RBS1-2765 |
| - Default DPCH Offset Value                     |                        | Not Present     |         | RBS1-2766 |
| - MAC-hs reset indicator                        |                        | TRUE            |         | RBS1-2767 |
| Downlink information common for all radio links | A13, A15, A16a         |                 | Rel-7   | RBS1-2768 |
|                                                 | , A19, A20, A23, A24   |                 | Rel-8   | RBS1-2769 |
| - Downlink DPCH info common for all RL          |                        |                 |         | RBS1-2770 |
| - Timing indication                             |                        | Maintain        |         | RBS1-2771 |
| - Timing maintained Synchronization indicator   |                        | FALSE           |         | RBS1-2772 |
| - Downlink DPCH power control information       |                        |                 |         | RBS1-2773 |
| - CHOICE mode                                   |                        | TDD             |         | RBS1-2774 |
| - TPC Step Size                                 |                        | 1               |         | RBS1-2775 |
| - CHOICE mode                                   |                        | TDD             |         | RBS1-2776 |
| - CHOICE mode                                   |                        | TDD             |         | RBS1-2777 |
| - CHOICE TDD option                             |                        | 1.28 Mcps TDD   |         | RBS1-2778 |
| - TSTD indicator                                |                        | FALSE           |         | RBS1-2779 |
| - Default DPCH Offset Value                     |                        | Not Present     |         | RBS1-2780 |
| - MAC-hs reset indicator                        |                        | Not Present     |         | RBS1-2781 |
| Downlink information per radio link list        | A1, A2, A3, A4, A7, A8 |                 |         | RBS1-2782 |
|                                                 | , A9, A10              |                 | Rel-5   | RBS1-2783 |

| Information Element                        | Condition                     | Value/remark                                                                                                  | Version            | Index     |
|--------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------|-----------|
|                                            | , A16, A17                    |                                                                                                               | Rel-7              | RBS1-2784 |
|                                            | , A21                         |                                                                                                               |                    | RBS1-2785 |
| - Downlink information for each radio link |                               |                                                                                                               |                    | RBS1-2786 |
| - Choice mode                              |                               | TDD                                                                                                           |                    | RBS1-2787 |
| - Primary CCPCH info                       |                               |                                                                                                               |                    | RBS1-2788 |
| - Choice mode                              |                               | TDD                                                                                                           |                    | RBS1-2789 |
| - Choice TDD Option                        |                               | 1.28 Mcps TDD                                                                                                 |                    | RBS1-2790 |
| - TSTD indicator                           |                               | FALSE                                                                                                         |                    | RBS1-2791 |
| - Cell parameters ID                       |                               | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127)                                               |                    | RBS1-2792 |
| - SCTD indicator                           |                               | FALSE                                                                                                         |                    | RBS1-2793 |
| - Downlink DPCH info for each RL           |                               |                                                                                                               |                    | RBS1-2794 |
| - CHOICE mode                              |                               | TDD                                                                                                           |                    | RBS1-2795 |
| - DL CCTrCh List                           |                               |                                                                                                               |                    | RBS1-2796 |
| - TFCS ID                                  |                               | 2 Integer(1.8)                                                                                                |                    | RBS1-2797 |
| - Time info                                |                               |                                                                                                               |                    | RBS1-2798 |
| - Activation time                          |                               | Now                                                                                                           |                    | RBS1-2799 |
| - Duration                                 |                               | Infinite                                                                                                      |                    | RBS1-2800 |
| - Common timeslot info                     |                               |                                                                                                               |                    | RBS1-2801 |
| - 2 <sup>nd</sup> interleaving mode        |                               | Default value is "Frame"                                                                                      |                    | RBS1-2802 |
| - TFCI coding                              |                               | Reference to clause 6 Parameter set                                                                           |                    | RBS1-2803 |
| - Puncturing limit                         |                               | Reference to clause 6 Parameter set                                                                           |                    | RBS1-2804 |
| - Repetition period                        |                               | 1                                                                                                             |                    | RBS1-2805 |
| - Repetition length                        |                               | NULL                                                                                                          |                    | RBS1-2806 |
| - Downlink DPCH timeslots and codes        |                               |                                                                                                               |                    | RBS1-2807 |
| - First individual timeslot info           |                               |                                                                                                               |                    | RBS1-2808 |
| - Timeslot number                          |                               |                                                                                                               |                    | RBS1-2809 |
| - CHOICE TDD option                        |                               | 1.28 Mcps TDD                                                                                                 |                    | RBS1-2810 |
| - Timeslot number                          |                               | 4 OR 5 OR 6                                                                                                   |                    | RBS1-2811 |
| - TFCI existence                           |                               | TRUE                                                                                                          |                    | RBS1-2812 |
| - Midamble shift and burst type            |                               |                                                                                                               |                    | RBS1-2813 |
| - CHOICE TDD option                        |                               | 1.28 Mcps TDD                                                                                                 |                    | RBS1-2814 |
| - Midamble allocation mode                 |                               | Default midamble                                                                                              |                    | RBS1-2815 |
| - Midamble configuration                   |                               | 8 (k=16)                                                                                                      |                    | RBS1-2816 |
| - Midamble Shift                           |                               | Not Present                                                                                                   |                    | RBS1-2817 |
| - CHOICE TDD option                        |                               | 1.28 Mcps TDD                                                                                                 |                    | RBS1-2818 |
| - Modulation                               |                               | QPSK                                                                                                          |                    | RBS1-2819 |
| - SS-TPC Symbols                           |                               | 1                                                                                                             |                    | RBS1-2820 |
| - Additional TPC-SS Symbols                |                               | Not present                                                                                                   |                    | RBS1-2821 |
| - First timeslot channelisation codes      |                               | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |                    | RBS1-2822 |
| - CHOICE codes representation              |                               |                                                                                                               |                    | RBS1-2823 |
| - Channelisation codes bitmap              |                               | Reference to clause 6.11 Parameter Set                                                                        |                    | RBS1-2824 |
| - CHOICE more timeslots                    |                               | No more timeslots                                                                                             |                    | RBS1-2825 |
| - UL CCTrCH TPC List                       |                               | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.                                   |                    | RBS1-2826 |
| - UL TPC TFCS Identity                     |                               |                                                                                                               |                    | RBS1-2827 |
| - TFCS ID                                  |                               | 1                                                                                                             |                    | RBS1-2828 |
| - Shared Channel Indicator                 |                               | FALSE                                                                                                         |                    | RBS1-2829 |
| - DL CCTrCH List to Remove                 |                               | Not present                                                                                                   |                    | RBS1-2830 |
| - SCCPCH Information for FACH              |                               | Not Present                                                                                                   | R99 and Rel-4 only | RBS1-2831 |
| - E-AGCH Info                              |                               | Not Present                                                                                                   | Rel-6              | RBS1-2832 |
| - CHOICE mode                              |                               | TDD                                                                                                           | Rel-7              | RBS1-2833 |
| - E-HICH Information                       |                               | Not Present                                                                                                   | Rel-7              | RBS1-2834 |
| Downlink information per radio link list   | A11, A12, A13, A14, A15, A16a |                                                                                                               | Rel-7              | RBS1-2835 |
|                                            | , A19, A20, A22, A23,         |                                                                                                               | Rel-8              | RBS1-2836 |

| Information Element                        | Condition | Value/remark                                                                                                  | Version | Index     |
|--------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------|---------|-----------|
|                                            | A24       |                                                                                                               |         |           |
| - Downlink information for each radio link |           |                                                                                                               |         | RBS1-2837 |
| - Choice mode                              |           | TDD                                                                                                           |         | RBS1-2838 |
| - Primary CCPCH info                       |           |                                                                                                               |         | RBS1-2839 |
| - Choice mode                              |           | TDD                                                                                                           |         | RBS1-2840 |
| - Choice TDD Option                        |           | 1.28 Mcps TDD                                                                                                 |         | RBS1-2841 |
| - TSTD indicator                           |           | FALSE                                                                                                         |         | RBS1-2842 |
| - Cell parameters ID                       |           | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127)                                               |         | RBS1-2843 |
| - SCTD indicator                           |           | FALSE                                                                                                         |         | RBS1-2844 |
| - Downlink DPCH info for each RL           |           |                                                                                                               |         | RBS1-2845 |
| - CHOICE mode                              |           | TDD                                                                                                           |         | RBS1-2846 |
| - DL CCTrCh List                           |           |                                                                                                               |         | RBS1-2847 |
| - TFCS ID                                  |           | 2 Integer(1.8)                                                                                                |         | RBS1-2848 |
| - Time info                                |           |                                                                                                               |         | RBS1-2849 |
| - Activation time                          |           | Now                                                                                                           |         | RBS1-2850 |
| - Duration                                 |           | Infinite                                                                                                      |         | RBS1-2851 |
| - Common timeslot info                     |           |                                                                                                               |         | RBS1-2852 |
| - 2nd interleaving mode                    |           | Default value is "Frame"                                                                                      |         | RBS1-2853 |
| - TFCI coding                              |           | Reference to clause 6 Parameter set                                                                           |         | RBS1-2854 |
| - Puncturing limit                         |           | Reference to clause 6 Parameter set                                                                           |         | RBS1-2855 |
| - Repetition period                        |           | 1                                                                                                             |         | RBS1-2856 |
| - Repetition length                        |           | NULL                                                                                                          |         | RBS1-2857 |
| - Downlink DPCH timeslots and codes        |           |                                                                                                               |         | RBS1-2858 |
| - First individual timeslot info           |           |                                                                                                               |         | RBS1-2859 |
| - Timeslot number                          |           |                                                                                                               |         | RBS1-2860 |
| - CHOICE TDD option                        |           | 1.28 Mcps TDD                                                                                                 |         | RBS1-2861 |
| - Timeslot number                          |           | 4 OR 5 OR 6                                                                                                   |         | RBS1-2862 |
| - TFCI existence                           |           | TRUE                                                                                                          |         | RBS1-2863 |
| - Midamble shift and burst type            |           |                                                                                                               |         | RBS1-2864 |
| - CHOICE TDD option                        |           | 1.28 Mcps TDD                                                                                                 |         | RBS1-2865 |
| - Midamble allocation mode                 |           | Default midamble                                                                                              |         | RBS1-2866 |
| - Midamble configuration                   |           | 8 (k=16)                                                                                                      |         | RBS1-2867 |
| - Midamble Shift                           |           | Not Present                                                                                                   |         | RBS1-2868 |
| - CHOICE TDD option                        |           | 1.28 Mcps TDD                                                                                                 |         | RBS1-2869 |
| - Modulation                               |           | QPSK                                                                                                          |         | RBS1-2870 |
| - SS-TPC Symbols                           |           | 1                                                                                                             |         | RBS1-2871 |
| - Additional TPC-SS Symbols                |           | Not present                                                                                                   |         | RBS1-2872 |
| - First timeslot channelisation codes      |           | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |         | RBS1-2873 |
| - CHOICE codes representation              |           |                                                                                                               |         | RBS1-2874 |
| - Channelisation codes bitmap              |           | Reference to clause 6.11 Parameter Set                                                                        |         | RBS1-2875 |
| - CHOICE more timeslots                    |           | No more timeslots                                                                                             |         | RBS1-2876 |
| - UL CCTrCH TPC List                       |           | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.                                   |         | RBS1-2877 |
| - UL TPC TFCS Identity                     |           |                                                                                                               |         | RBS1-2878 |
| - TFCS ID                                  |           | 1                                                                                                             |         | RBS1-2879 |
| - Shared Channel Indicator                 |           | FALSE                                                                                                         |         | RBS1-2880 |
| - DL CCTrCH List to Remove                 |           | Not present                                                                                                   |         | RBS1-2881 |
| - E-AGCH Info                              |           |                                                                                                               |         | RBS1-2882 |
| - CHOICE mode                              |           | TDD                                                                                                           |         | RBS1-2883 |
| - CHOICE TDD Option                        |           | 1.28 Mcps TDD                                                                                                 |         | RBS1-2884 |
| - RDI Indicator                            |           | FALSE                                                                                                         |         | RBS1-2885 |
| - TPC step size                            |           | 1                                                                                                             |         | RBS1-2886 |
| - E-AGCH set configuration                 |           |                                                                                                               |         | RBS1-2887 |
| - Timeslot number                          |           | 6                                                                                                             |         | RBS1-2888 |
| - First Channelisation code                |           | 16/13                                                                                                         |         | RBS1-2889 |
| - Second Channelisation code               |           | 16/14                                                                                                         |         | RBS1-2890 |
| - Midamble Allocation mode                 |           | Default midamble                                                                                              |         | RBS1-2891 |
| - Midamble configuration                   |           | 8 (k=16)                                                                                                      |         | RBS1-2892 |

| Information Element                        | Condition                                                             | Value/remark                                                    | Version            | Index     |
|--------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------|--------------------|-----------|
| - Midamble Shift                           |                                                                       | Not Present                                                     |                    | RBS1-2893 |
| - E-AGCH BLER target                       |                                                                       | -0.05                                                           |                    | RBS1-2894 |
| - CHOICE <i>mode</i>                       |                                                                       | TDD                                                             |                    | RBS1-2895 |
| - CHOICE <i>TDD Option</i>                 |                                                                       | 1.28 Mcps TDD                                                   |                    | RBS1-2896 |
| - N <sub>E-HICH</sub>                      |                                                                       | 15                                                              |                    | RBS1-2897 |
| - E-HICH set configuration                 |                                                                       |                                                                 |                    | RBS1-2898 |
| - EI                                       |                                                                       | 2                                                               |                    | RBS1-2899 |
| - Timeslot number                          |                                                                       | 6                                                               |                    | RBS1-2900 |
| - Channelisation code                      |                                                                       | 16/15                                                           |                    | RBS1-2901 |
| - Midamble Allocation mode                 |                                                                       | Default midamble                                                |                    | RBS1-2902 |
| - Midamble configuration                   |                                                                       | 8 (k=16)                                                        |                    | RBS1-2903 |
| - Midamble Shift                           |                                                                       | Not Present                                                     |                    | RBS1-2904 |
| Downlink information per radio link list   | A5                                                                    |                                                                 |                    | RBS1-2905 |
| - Downlink information for each radio link |                                                                       |                                                                 |                    | RBS1-2906 |
| - Choice mode                              |                                                                       | TDD                                                             |                    | RBS1-2907 |
| - Primary CCPCH info                       |                                                                       |                                                                 |                    | RBS1-2908 |
| - Choice mode                              |                                                                       | TDD                                                             |                    | RBS1-2909 |
| - Choice TDD Option                        |                                                                       | 1.28 Mcps TDD                                                   |                    | RBS1-2910 |
| - TSTD indicator                           |                                                                       | FALSE                                                           |                    | RBS1-2911 |
| - Cell parameters ID                       |                                                                       | Ref. to the Default setting in clause 6.1 (TDD) Integer(0..127) |                    | RBS1-2912 |
| - SCTD indicator                           |                                                                       | FALSE                                                           |                    | RBS1-2913 |
| - Downlink DPCH info for each RL           |                                                                       | Not Present                                                     |                    | RBS1-2914 |
| - SCCPCH Information for FACH              |                                                                       | Not Present                                                     | R99 and Rel-4 only | RBS1-2915 |
| - E-AGCH Info                              |                                                                       | Not Present                                                     | Rel-6              | RBS1-2916 |
| - CHOICE <i>mode</i>                       |                                                                       | TDD                                                             | Rel-7              | RBS1-2917 |
| - E-HICH Information                       |                                                                       | Not Present                                                     | Rel-7              | RBS1-2918 |
| Downlink information per radio link list   | A6, A18                                                               | Not Present                                                     |                    | RBS1-2919 |
|                                            |                                                                       |                                                                 | Rel-8              | RBS1-2920 |
| MBMS PL Service Restriction Information    | A1, A2, A3, A4, A5, A6, A7, A8                                        | Not Present                                                     |                    | RBS1-2921 |
|                                            | A9, A10                                                               |                                                                 | Rel-5              | RBS1-2922 |
|                                            | A11, A12, A13, A14, A15, A16, A16a, A17, A19, A20, A21, A22, A23, A24 |                                                                 | Rel-7              | RBS1-2923 |
|                                            |                                                                       |                                                                 | Rel-8              | RBS1-2924 |
| CELL_DCH measurement occasion info LCR     |                                                                       | Not Present                                                     | Rel-9              | RBS1-2925 |

| Condition | Explanation                                                                                                                                                                 | Version |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| A1        | This IE need for "Non speech to CELL_DCH from CELL_DCH in CS"                                                                                                               |         |
| A2        | This IE need for "Speech to CELL_DCH from CELL_DCH in CS"                                                                                                                   |         |
| A3        | This IE need for "Packet to CELL_DCH from CELL_DCH in PS"                                                                                                                   |         |
| A4        | This IE need for "Packet to CELL_DCH from CELL_FACH in PS"                                                                                                                  |         |
| A5        | This IE need for "Packet to CELL_FACH from CELL_DCH in PS"                                                                                                                  |         |
| A6        | This IE need for "Packet to CELL_FACH from CELL_FACH in PS"                                                                                                                 |         |
| A7        | This IE need for "Non speech to CELL_DCH from CELL_FACH in CS"                                                                                                              |         |
| A8        | This IE need for "Speech to CELL_DCH from CELL_FACH in CS"                                                                                                                  |         |
| A9        | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS" | Rel-5   |
| A10       | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_FACH in PS"   | Rel-5   |
| A11       | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using three multiplexing options (3/3) and SRBs mapped on DCH/DCH"                                              | Rel-7   |
| A12       | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH"                                               | Rel-7   |

|      |                                                                                                                                                                                                                              |       |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| A13  | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH"                                                                                            | Rel-7 |
| A14  | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (two streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/DCH"                                      | Rel-7 |
| A15  | This IE is needed for "Packet to CELL_DCH / E-DCH / HS-DSCH with multiple RABs (one conversational and one streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH"           | Rel-7 |
| A16  | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC AM"                                                                                                                                      | Rel-7 |
| A16a | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC AM using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH (MAC-ehs)"                                                       | Rel-7 |
| A17  | This IE is needed for "Packet to CELL_DCH / HS-DSCH with enhanced data rate and RLC UM"                                                                                                                                      | Rel-7 |
| A18  | This IE is needed for "Packet to CELL_FACH from CELL_FACH using one multiplexing option (1/1) and SRBs mapped on E-DCH/HS-DSCH"                                                                                              | Rel-8 |
| A19  | This IE is needed for " Packet to CELL_DCH / E-DCH / HS-DSCH with SPS operation"                                                                                                                                             | Rel-8 |
| A20  | This IE is needed for " Packet to CELL_DCH / E-DCH / HS-DSCH with Control Channel DRX operation "                                                                                                                            | Rel-8 |
| A21  | This IE is needed for "Packet to CELL_DCH / HS-DSCH with MIMO"                                                                                                                                                               | Rel-8 |
| A22  | This IE is needed for "UM Packet to CELL_DCH / E-DCH (MAC-i/is) / HS-DSCH (MAC-ehs) with multiple RABs (three streaming/interactive/background) using one multiplexing option (1/1) and SRBs mapped on E-DCH (MAC-i/is)/DCH" | Rel-8 |
| A23  | This IE is needed for "UM Packet to CELL_DCH / E-DCH (MAC-i/is) / HS-DSCH (MAC-ehs) using one multiplexing option (1/1) and SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH (MAC-ehs)"                                               | Rel-8 |
| A24  | This IE is needed for "AM Packet to CELL_DCH from Enhanced CELL_FACH in PS with SRBs mapped on E-DCH (MAC-i/is)/HS-DSCH(MAC-ehs)"                                                                                            | Rel-8 |

| Condition   | Explanation                                                                      | Version |
|-------------|----------------------------------------------------------------------------------|---------|
| MAC-I-FIXED | Used with other condition when MAC-i/is with Fixed RLC PDU size is configured    | Rel-8   |
| MAC-I-FLEX  | Used with other condition when MAC-i/is with Flexible RLC PDU size is configured | Rel-8   |

## Contents of RADIO BEARER SETUP message: AM or UM (7.68 Mcps TDD)

| Information Element                                   | Condition                                    | Value/remark                                                                                                                                                      | Version        | Index                                        |
|-------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------|
| Message Type                                          | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 |                                                                                                                                                                   | Rel-5<br>Rel-6 | RBS7-001<br>RBS7-002<br>RBS7-003<br>RBS7-004 |
| RRC transaction identifier                            |                                              | Arbitrarily selects an integer between 0 and 3                                                                                                                    |                | RBS7-005<br>RBS7-006                         |
| Integrity check info<br>- message authentication code |                                              | SS calculates the value of MAC-I for this message and writes to this IE. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I. |                | RBS7-007                                     |
| - RRC message sequence number                         |                                              | SS provides the value of this IE, from its internal counter.                                                                                                      |                | RBS7-008                                     |
| Integrity protection mode info                        |                                              | Not Present                                                                                                                                                       |                | RBS7-009                                     |
| Ciphering mode info                                   |                                              | Not Present                                                                                                                                                       |                | RBS7-010                                     |
| Activation time                                       | A1, A2, A3, A11, A9                          | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                  | Rel-5<br>Rel-6 | RBS7-011<br>RBS7-012<br>RBS7-013             |
| Activation time                                       | A4, A5, A6, A7, A8, A10                      | Not Present                                                                                                                                                       | Rel-5          | RBS7-014<br>RBS7-015                         |
| New U-RNTI                                            | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | Not Present                                                                                                                                                       | Rel-5<br>Rel-6 | RBS7-016<br>RBS7-017<br>RBS7-018             |
| New C-RNTI                                            | A1, A2, A3, A4, A7, A8, A11, A9, A10         | Not Present                                                                                                                                                       | Rel-5<br>Rel-6 | RBS7-019<br>RBS7-020<br>RBS7-021             |
| New C-RNTI                                            | A5, A6                                       | '1010 1010 1010 1010'                                                                                                                                             |                |                                              |

| Information Element                        | Condition                                    | Value/remark                                                                                     | Version | Index                            |
|--------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------|---------|----------------------------------|
| New DSCH-RNTI                              | A1, A2, A3, A4, A5, A6, A7, A8, A11          | Not Present                                                                                      |         | RBS7-022                         |
| New H-RNTI                                 | A1, A2, A3, A4, A5, A6, A7, A8, A11          | Not Present                                                                                      | Rel-5   | RBS7-023                         |
| New H-RNTI                                 | A9, A10                                      | '1010 1010 1010 1010'                                                                            | Rel-5   | RBS7-024                         |
| CHOICE mode                                | A12, A13, A14, A15                           |                                                                                                  | Rel-6   | RBS7-025                         |
|                                            | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11 | TDD                                                                                              | Rel-7   | RBS7-026                         |
| - New E-RNTI                               | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11 | Not Present                                                                                      | Rel-7   | RBS7-027<br>RBS7-028             |
| RRC State indicator                        | A1, A2, A3, A4, A7, A8, A11, A9, A10         | CELL_DCH                                                                                         |         | RBS7-029                         |
| RRC State indicator                        | A5, A6                                       | CELL_FACH                                                                                        | Rel-5   | RBS7-030                         |
| UTRAN DRX cycle length coefficient         | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10 | Not Present                                                                                      | Rel-6   | RBS7-031<br>RBS7-032<br>RBS7-033 |
| CN information info                        |                                              | Not Present                                                                                      |         | RBS7-034<br>RBS7-035<br>RBS7-036 |
| URA identity                               |                                              | Not Present                                                                                      |         | RBS7-037                         |
| CHOICE Specification mode                  |                                              | Complete specification                                                                           | Rel-6   | RBS7-038                         |
| - Signalling RB information to setup       |                                              | Not Present                                                                                      |         | RBS7-039                         |
| - RAB information for setup                | A1, A7                                       |                                                                                                  |         | RBS7-040                         |
| - RAB info                                 |                                              | 0000 0001B                                                                                       |         | RBS7-041                         |
| - RAB identity                             |                                              | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS7-042                         |
| - CN domain identity                       |                                              | CS domain                                                                                        |         | RBS7-043                         |
| - NAS Synchronization Indicator            |                                              | Not Present                                                                                      |         | RBS7-044                         |
| - Re-establishment timer                   |                                              | useT314                                                                                          |         | RBS7-045                         |
| - RB information to setup                  |                                              |                                                                                                  |         | RBS7-046                         |
| - RB identity                              |                                              | 10                                                                                               |         | RBS7-047                         |
| - PDCP info                                |                                              | Not Present                                                                                      |         | RBS7-048                         |
| - CHOICE RLC info type                     |                                              | RLC info                                                                                         |         | RBS7-049                         |
| - CHOICE Uplink RLC mode                   |                                              | TM RLC                                                                                           |         | RBS7-050                         |
| - Transmission RLC discard                 |                                              | Not Present                                                                                      |         | RBS7-051                         |
| - Segmentation indication                  |                                              | FALSE                                                                                            |         | RBS7-052                         |
| - CHOICE Downlink RLC mode                 |                                              | TM RLC                                                                                           |         | RBS7-053                         |
| - Segmentation indication                  |                                              | FALSE                                                                                            |         | RBS7-054                         |
| - RB mapping info                          |                                              |                                                                                                  |         | RBS7-055                         |
| - Information for each multiplexing option |                                              |                                                                                                  |         | RBS7-056                         |
| - RLC logical channel mapping indicator    |                                              | Not Present                                                                                      |         | RBS7-057                         |
| - Number of uplink RLC logical channels    |                                              | 1                                                                                                |         | RBS7-058                         |
| - Uplink transport channel type            |                                              | DCH                                                                                              |         | RBS7-059                         |
| - UL Transport channel identity            |                                              | 1                                                                                                |         | RBS7-060                         |
| - Logical channel identity                 |                                              | Not Present                                                                                      |         | RBS7-061                         |
| - CHOICE RLC size list                     |                                              | Configured                                                                                       |         | RBS7-062                         |
| - MAC logical channel priority             |                                              | 7                                                                                                |         | RBS7-063                         |
| - Downlink RLC logical channel info        |                                              |                                                                                                  |         | RBS7-064                         |
| - Number of downlink RLC logical channels  |                                              | 1                                                                                                |         | RBS7-065                         |
| - Downlink transport channel type          |                                              | DCH                                                                                              |         | RBS7-066                         |
| - DL DCH Transport channel identity        |                                              | 6                                                                                                |         | RBS7-067                         |
| - DL DSCH Transport channel identity       |                                              | Not Present                                                                                      |         | RBS7-068                         |
| - Logical channel identity                 |                                              | Not Present                                                                                      |         | RBS7-069                         |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Condition | Value/remark                                                                                                                                                                                                                                               | Version | Index                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- RAB information for setup</li> <li>- RAB info</li> <li>- RAB identity</li> <li>- CN domain identity</li> <li>- NAS Synchronization Indicator</li> <li>- Re-establishment timer</li> <li>- RB information to setup</li> <li>- RB identity</li> <li>- PDCP info</li> <li>- CHOICE RLC info type</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A2, A8    | 0000 0001B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.<br>CS domain<br>Not Present<br>useT314<br>10<br>Not Present<br>RLC info<br>TM RLC<br>Not Present                                            |         | RBS7-070<br>RBS7-071<br>RBS7-072<br>RBS7-073<br>RBS7-074<br>RBS7-075<br>RBS7-076<br>RBS7-077<br>RBS7-078<br>RBS7-079<br>RBS7-080<br>RBS7-081                                                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>- Segmentation indication</li> <li>- CHOICE Downlink RLC mode</li> <li>- Segmentation indication</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of downlink RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- Logical channel identity</li> <li>- RB identity</li> <li>- PDCP info</li> <li>- CHOICE RLC info type</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- Segmentation indication</li> <li>- CHOICE Downlink RLC mode</li> <li>- Segmentation indication</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of downlink RLC logical channels</li> <li>- Downlink transport channel type</li> </ul> |           | FALSE<br>TM RLC<br>FALSE<br>Not Present<br>1<br>DCH<br>1<br>Not Present<br>Configured<br>6<br>1<br>DCH<br>6<br>Not Present<br>Not Present<br>11<br>Not Present<br>RLC info<br>TM RLC<br>Not Present<br>FALSE<br>TM RLC<br>FALSE<br>Not Present<br>1<br>DCH |         | RBS7-082<br>RBS7-083<br>RBS7-084<br>RBS7-085<br>RBS7-086<br>RBS7-087<br>RBS7-088<br>RBS7-089<br>RBS7-090<br>RBS7-091<br>RBS7-092<br>RBS7-093<br>RBS7-094<br>RBS7-095<br>RBS7-096<br>RBS7-097<br>RBS7-098<br>RBS7-099<br>RBS7-100<br>RBS7-101<br>RBS7-102<br>RBS7-103<br>RBS7-104<br>RBS7-105<br>RBS7-106<br>RBS7-107<br>RBS7-108<br>RBS7-109<br>RBS7-110<br>RBS7-111<br>RBS7-112<br>RBS7-113<br>RBS7-114<br>RBS7-115<br>RBS7-116<br>RBS7-117<br>RBS7-118<br>RBS7-119 |

| Information Element                        | Condition      | Value/remark                                                                                     | Version | Index    |
|--------------------------------------------|----------------|--------------------------------------------------------------------------------------------------|---------|----------|
| - DL DCH Transport channel identity        |                | 7                                                                                                |         | RBS7-120 |
| - DL DSCH Transport channel identity       |                | Not Present                                                                                      |         | RBS7-121 |
| - Logical channel identity                 |                | Not Present                                                                                      |         | RBS7-122 |
| - RB identity                              |                | 12                                                                                               |         | RBS7-123 |
| - PDCP info                                |                | Not Present                                                                                      |         | RBS7-124 |
| - CHOICE RLC info type                     |                | RLC info                                                                                         |         | RBS7-125 |
| - CHOICE Uplink RLC mode                   |                | TM RLC                                                                                           |         | RBS7-126 |
| - Transmission RLC discard                 |                | Not Present                                                                                      |         | RBS7-127 |
| - Segmentation indication                  |                | FALSE                                                                                            |         | RBS7-128 |
| - CHOICE Downlink RLC mode                 |                | TM RLC                                                                                           |         | RBS7-129 |
| - Segmentation indication                  |                | FALSE                                                                                            |         | RBS7-130 |
| - RB mapping info                          |                |                                                                                                  |         | RBS7-131 |
| - Information for each multiplexing option |                |                                                                                                  |         | RBS7-132 |
| - RLC logical channel mapping indicator    |                | Not Present                                                                                      |         | RBS7-133 |
| - Number of uplink RLC logical channels    |                | 1                                                                                                |         | RBS7-134 |
| - Uplink transport channel type            |                | DCH                                                                                              |         | RBS7-135 |
| - UL Transport channel identity            |                | 3                                                                                                |         | RBS7-136 |
| - Logical channel identity                 |                | Not Present                                                                                      |         | RBS7-137 |
| - CHOICE RLC size list                     |                | Configured                                                                                       |         | RBS7-138 |
| - MAC logical channel priority             |                | 6                                                                                                |         | RBS7-139 |
| - Downlink RLC logical channel info        |                |                                                                                                  |         | RBS7-140 |
| - Number of downlink RLC logical channels  |                | 1                                                                                                |         | RBS7-141 |
| - Downlink transport channel type          |                | DCH                                                                                              |         | RBS7-142 |
| - DL DCH Transport channel identity        |                | 8                                                                                                |         | RBS7-143 |
| - DL DSCH Transport channel identity       |                | Not Present                                                                                      |         | RBS7-144 |
| - Logical channel identity                 |                | Not Present                                                                                      |         | RBS7-145 |
| - RAB information for setup                | A3, A4, A5, A6 |                                                                                                  |         | RBS7-146 |
| - RAB info                                 |                | (AM DTCH for PS domain)                                                                          |         | RBS7-147 |
| - RAB identity                             |                | 0000 0101B                                                                                       |         | RBS7-148 |
|                                            |                | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |          |
|                                            |                | PS domain                                                                                        |         | RBS7-149 |
| - CN domain identity                       |                | Not Present                                                                                      |         | RBS7-150 |
| - NAS Synchronization Indicator            |                | useT315                                                                                          |         | RBS7-151 |
| - Re-establishment timer                   |                |                                                                                                  |         | RBS7-152 |
| - RB information to setup                  |                |                                                                                                  |         | RBS7-153 |
| - RB identity                              |                | 20                                                                                               |         | RBS7-154 |
| - PDCP info                                |                | FALSE                                                                                            |         | RBS7-155 |
| - Support for lossless SRNS relocation     |                |                                                                                                  |         |          |
| - Max PDCP SN window size                  |                | Not present                                                                                      |         | RBS7-156 |
| - PDCP PDU header                          |                | Absent                                                                                           |         | RBS7-157 |
| - Header compression                       |                | Not present                                                                                      |         | RBS7-158 |
| - CHOICE RLC info type                     |                | RLC info                                                                                         |         | RBS7-159 |
| - CHOICE Uplink RLC mode                   |                | AM RLC                                                                                           |         | RBS7-160 |
| - Transmission RLC discard                 |                |                                                                                                  |         | RBS7-161 |
| - CHOICE SDU discard mode                  |                | No Discard                                                                                       |         | RBS7-162 |
| - MAX_DAT                                  |                | 15                                                                                               |         | RBS7-163 |
| - Transmission window size                 |                | 128                                                                                              |         | RBS7-164 |
| - Timer_RST                                |                | 500                                                                                              |         | RBS7-165 |
| - Max_RST                                  |                | 4                                                                                                |         | RBS7-166 |
| - Polling info                             |                |                                                                                                  |         | RBS7-167 |
| - Timer_poll_prohibit                      |                | 200                                                                                              |         | RBS7-168 |
| - Timer_poll                               |                | 200                                                                                              |         | RBS7-169 |
| - Poll_PDU                                 |                | Not Present                                                                                      |         | RBS7-170 |
| - Poll_SDU                                 |                | 1                                                                                                |         | RBS7-171 |



| Information Element                        | Condition | Value/remark                                                                                     | Version | Index    |
|--------------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|----------|
| - Last transmission PDU poll               |           | TRUE                                                                                             |         | RBS7-172 |
| - Last retransmission PDU poll             |           | TRUE                                                                                             |         | RBS7-173 |
| - Poll_Windows                             |           | 99                                                                                               |         | RBS7-174 |
| - Timer_poll_periodic                      |           | Not Present                                                                                      |         | RBS7-175 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                                                                                           |         | RBS7-176 |
| - In-sequence delivery                     |           | TRUE                                                                                             |         | RBS7-177 |
| - Receiving window size                    |           | 128                                                                                              |         | RBS7-178 |
| - Downlink RLC status info                 |           |                                                                                                  |         | RBS7-179 |
| - Timer_status_prohibit                    |           | 200                                                                                              |         | RBS7-180 |
| - Timer_EPC                                |           | Not Present                                                                                      |         | RBS7-181 |
| - Missing PDU indicator                    |           | TRUE                                                                                             |         | RBS7-182 |
| - Timer_STATUS_periodic                    |           | Not Present                                                                                      |         | RBS7-183 |
| - RB mapping info                          |           |                                                                                                  |         | RBS7-184 |
| - Information for each multiplexing option |           | 2 RBMuxOptions                                                                                   |         | RBS7-185 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                                      |         | RBS7-186 |
| - Number of uplink RLC logical channels    |           | 1                                                                                                |         | RBS7-187 |
| - Uplink transport channel type            |           | DCH                                                                                              |         | RBS7-188 |
| - UL Transport channel identity            |           | 1                                                                                                |         | RBS7-189 |
| - Logical channel identity                 |           | Not Present                                                                                      |         | RBS7-190 |
| - CHOICE RLC size list                     |           | Configured                                                                                       |         | RBS7-191 |
| - MAC logical channel priority             |           | 8                                                                                                |         | RBS7-192 |
| - Downlink RLC logical channel info        |           |                                                                                                  |         | RBS7-193 |
| - Number of downlink RLC logical channels  |           | 1                                                                                                |         | RBS7-194 |
| - Downlink transport channel type          |           | DCH                                                                                              |         | RBS7-195 |
| - DL DCH Transport channel identity        |           | 6                                                                                                |         | RBS7-196 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                                      |         | RBS7-197 |
| - Logical channel identity                 |           | Not Present                                                                                      |         | RBS7-198 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                                      |         | RBS7-199 |
| - Number of uplink RLC logical channels    |           | 1                                                                                                |         | RBS7-200 |
| - Uplink transport channel type            |           | RACH                                                                                             |         | RBS7-201 |
| - UL Transport channel identity            |           | Not Present                                                                                      |         | RBS7-202 |
| - Logical channel identity                 |           | 7                                                                                                |         | RBS7-203 |
| - CHOICE RLC size list                     |           | Explicit list                                                                                    |         | RBS7-204 |
| - RLC size index                           |           | Reference to clause 6 Parameter Set                                                              |         | RBS7-205 |
| - MAC logical channel priority             |           | 8                                                                                                |         | RBS7-206 |
| - Downlink RLC logical channel info        |           |                                                                                                  |         | RBS7-207 |
| - Number of downlink RLC logical channels  |           | 1                                                                                                |         | RBS7-208 |
| - Downlink transport channel type          |           | FACH                                                                                             |         | RBS7-209 |
| - DL DCH Transport channel identity        |           | Not Present                                                                                      |         | RBS7-210 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                                      |         | RBS7-211 |
| - Logical channel identity                 |           | 7                                                                                                |         | RBS7-212 |
| - RAB information for setup                | A9        |                                                                                                  | Rel-5   | RBS7-213 |
| - RAB info                                 |           | (high-speed AM DTCH for PS domain)                                                               |         | RBS7-214 |
| - RAB identity                             |           | 0000 0101B                                                                                       |         | RBS7-215 |
|                                            |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |          |
| - CN domain identity                       |           | PS domain                                                                                        |         | RBS7-216 |
| - NAS Synchronization Indicator            |           | Not Present                                                                                      |         | RBS7-217 |
| - Re-establishment timer                   |           | useT315                                                                                          |         | RBS7-218 |
| - RB information to setup                  |           |                                                                                                  |         | RBS7-219 |
| - RB identity                              |           | 25                                                                                               |         | RBS7-220 |

| Information Element                        | Condition | Value/remark                        | Version | Index    |
|--------------------------------------------|-----------|-------------------------------------|---------|----------|
| - PDCP info                                |           | FALSE                               |         | RBS7-221 |
| - Support for lossless SRNS relocation     |           |                                     |         | RBS7-222 |
| - Max PDCP SN window size                  |           | Not present                         |         | RBS7-223 |
| - PDCP PDU header                          |           | Absent                              |         | RBS7-224 |
| - Header compression                       |           | Not present                         |         | RBS7-225 |
| information                                |           |                                     |         |          |
| - CHOICE RLC info type                     |           | RLC info                            |         | RBS7-226 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                              |         | RBS7-227 |
| - Transmission RLC discard                 |           |                                     |         | RBS7-228 |
| - CHOICE SDU discard mode                  |           | No Discard                          |         | RBS7-229 |
| - MAX_DAT                                  |           | 15                                  |         | RBS7-230 |
| - Transmission window size                 |           | 128                                 |         | RBS7-231 |
| - Timer_RST                                |           | 500                                 |         | RBS7-232 |
| - Max_RST                                  |           | 4                                   |         | RBS7-233 |
| - Polling info                             |           |                                     |         | RBS7-234 |
| - Timer_poll_prohibit                      |           | 100                                 |         | RBS7-235 |
| - Timer_poll                               |           | 100                                 |         | RBS7-236 |
| - Poll_PDU                                 |           | Not Present                         |         | RBS7-237 |
| - Poll_SDU                                 |           | 1                                   |         | RBS7-238 |
| - Last transmission PDU poll               |           | TRUE                                |         | RBS7-239 |
| - Last retransmission PDU poll             |           | TRUE                                |         | RBS7-240 |
| - Poll_Windows                             |           | 99                                  |         | RBS7-241 |
| - Timer_poll_periodic                      |           | Not Present                         |         | RBS7-242 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                              |         | RBS7-243 |
| - CHOICE Downlink RLC PDU                  |           | Reference to clause 6 Parameter Set |         | RBS7-244 |
| Size                                       |           |                                     |         |          |
| - In-sequence delivery                     |           | TRUE                                |         | RBS7-245 |
| - Receiving window size                    |           | 768                                 |         | RBS7-246 |
| - Downlink RLC status info                 |           |                                     |         | RBS7-247 |
| - Timer_status_prohibit                    |           | 100                                 |         | RBS7-248 |
| - Timer_EPC                                |           | Not Present                         |         | RBS7-249 |
| - Missing PDU indicator                    |           | TRUE                                |         | RBS7-250 |
| - Timer_STATUS_periodic                    |           | Not Present                         |         | RBS7-251 |
| - One sided RLC re-establishment           |           | FALSE                               |         | RBS7-252 |
| - RB mapping info                          |           |                                     |         | RBS7-253 |
| - Information for each multiplexing option |           | 3 RBMuxOptions                      |         | RBS7-254 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RBS7-255 |
| - Number of uplink RLC logical channels    |           | 1                                   |         | RBS7-256 |
| - Uplink transport channel type            |           | DCH                                 |         | RBS7-257 |
| - UL Transport channel identity            |           | 1                                   |         | RBS7-258 |
| - Logical channel identity                 |           | Not Present                         |         | RBS7-259 |
| - CHOICE RLC size list                     |           | Configured                          |         | RBS7-260 |
| - MAC logical channel priority             |           | 8                                   |         | RBS7-261 |
| - Downlink RLC logical channel info        |           |                                     |         | RBS7-262 |
| - Number of downlink RLC logical channels  |           | 1                                   |         | RBS7-263 |
| - Downlink transport channel type          |           | DCH                                 |         | RBS7-264 |
| - DL DCH Transport channel identity        |           | 6                                   |         | RBS7-265 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RBS7-266 |
| - DL HS-DSCH MAC-d flow identity           |           | Not Present                         |         | RBS7-267 |
| - Logical channel identity                 |           | Not Present                         |         | RBS7-268 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RBS7-269 |
| - Number of uplink RLC logical channels    |           | 1                                   |         | RBS7-270 |
| - Uplink transport channel type            |           | DCH                                 |         | RBS7-271 |
| - UL Transport channel identity            |           | 1                                   |         | RBS7-272 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Condition | Value/remark                                                                                     | Version | Index    |
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| <ul style="list-style-type: none"> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of downlink RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- DL HS-DSCH MAC-d flow identity</li> <li>- Logical channel identity</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> <li>- RLC size index</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of downlink RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> </ul> |           | Not Present                                                                                      |         | RBS7-273 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | Configured                                                                                       |         | RBS7-274 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | HS-DSCH                                                                                          |         | RBS7-278 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | Not Present                                                                                      |         | RBS7-280 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | 0                                                                                                |         | RBS7-281 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | Not Present                                                                                      |         | RBS7-286 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | 7                                                                                                |         | RBS7-287 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | Reference to clause 6 Parameter Set                                                              |         | RBS7-289 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | Not Present                                                                                      |         | RBS7-294 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | Not Present                                                                                      |         | RBS7-295 |
| <ul style="list-style-type: none"> <li>- Logical channel identity</li> <li>- RAB information for setup</li> <li>- RAB info</li> <li>- RAB identity</li> <li>- CN domain identity</li> <li>- NAS Synchronization Indicator</li> <li>- Re-establishment timer</li> <li>- RB information to setup</li> <li>- RB identity</li> <li>- PDCP info</li> <li>- Support for lossless SRNS relocation</li> <li>- Max PDCP SN window size</li> <li>- PDCP PDU header</li> <li>- Header compression</li> <li>- CHOICE RLC info type</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- CHOICE SDU discard mode</li> <li>- MAX_DAT</li> <li>- Transmission window size</li> <li>- Timer_RST</li> <li>- Max_RST</li> <li>- Polling info</li> <li>- Timer_poll_prohibit</li> <li>- Timer_poll</li> <li>- Poll_PDU</li> </ul>                                                                                                                                                                                               | A10       | 7                                                                                                | Rel-5   | RBS7-296 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | (high-speed AM DTCH for PS domain)                                                               |         | RBS7-297 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | 0000 0101B                                                                                       |         | RBS7-298 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS7-299 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | PS domain                                                                                        |         | RBS7-300 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | Not Present                                                                                      |         | RBS7-301 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | useT315                                                                                          |         | RBS7-302 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | 25                                                                                               |         | RBS7-303 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | FALSE                                                                                            |         | RBS7-306 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | Not present                                                                                      |         | RBS7-307 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | Absent                                                                                           |         | RBS7-308 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | Not present                                                                                      |         | RBS7-309 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | RLC info                                                                                         |         | RBS7-310 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | AM RLC                                                                                           |         | RBS7-311 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | No Discard                                                                                       |         | RBS7-313 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | 500                                                                                              |         | RBS7-316 |
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| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Condition | Value/remark                                                                                     | Version | Index    |
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| <ul style="list-style-type: none"> <li>- Poll_SDU</li> <li>- Last transmission PDU poll</li> <li>- Last retransmission PDU poll</li> <li>- Poll_Windows</li> <li>- Timer_poll_periodic</li> <li>- CHOICE Downlink RLC mode</li> <li>- CHOICE Downlink RLC PDU</li> </ul> Size <ul style="list-style-type: none"> <li>- In-sequence delivery</li> <li>- Receiving window size</li> <li>- Downlink RLC status info</li> <li>- Timer_status_prohibit</li> <li>- Timer_EPC</li> <li>- Missing PDU indicator</li> <li>- Timer_STATUS_periodic</li> <li>- One sided RLC re-establishment</li> </ul> <ul style="list-style-type: none"> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> </ul> indicator <ul style="list-style-type: none"> <li>- RLC logical channel mapping</li> <li>- Number of uplink RLC logical channels</li> </ul> <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel</li> </ul> info <ul style="list-style-type: none"> <li>- Number of downlink RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- DL HS-DSCH MAC-d flow identity</li> <li>- Logical channel identity</li> <li>- RAB information for setup</li> </ul> | A11       | 1                                                                                                |         | RBS7-322 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | Not present                                                                                      |         | RBS7-363 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | Absent                                                                                           |         | RBS7-364 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | Not present                                                                                      |         | RBS7-365 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | RLC info                                                                                         |         | RBS7-366 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | AM RLC                                                                                           |         | RBS7-367 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                  |         | RBS7-368 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | No Discard                                                                                       |         | RBS7-369 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | 15                                                                                               |         | RBS7-370 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | 128                                                                                              |         | RBS7-371 |
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| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Condition                              | Value/remark                        | Version | Index    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- Max_RST</li> <li>- Polling info</li> <li>- Timer_poll_prohibit</li> <li>- Timer_poll</li> <li>- Poll_PDU</li> <li>- Poll_SDU</li> <li>- Last transmission PDU poll</li> <li>- Last retransmission PDU poll</li> <li>- Poll_Windows</li> <li>- Timer_poll_periodic</li> <li>- CHOICE Downlink RLC mode</li> <li>- In-sequence delivery</li> <li>- Receiving window size</li> <li>- Downlink RLC status info</li> <li>- Timer_status_prohibit</li> <li>- Timer_EPC</li> <li>- Missing PDU indicator</li> <li>- Timer_STATUS_periodic</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of downlink RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- Logical channel identity</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> </ul> |                                        | 4                                   |         | RBS7-373 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |                                     |         | RBS7-374 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 200                                 |         | RBS7-375 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 200                                 |         | RBS7-376 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | Not Present                         |         | RBS7-377 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 1                                   |         | RBS7-378 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | TRUE                                |         | RBS7-379 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | TRUE                                |         | RBS7-380 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 99                                  |         | RBS7-381 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | Not Present                         |         | RBS7-382 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | AM RLC                              |         | RBS7-383 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | TRUE                                |         | RBS7-384 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 128                                 |         | RBS7-385 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |                                     |         | RBS7-386 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 200                                 |         | RBS7-387 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | Not Present                         |         | RBS7-388 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | TRUE                                |         | RBS7-389 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | Not Present                         |         | RBS7-390 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |                                     |         | RBS7-391 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 2 RBMuxOptions                      |         | RBS7-392 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | Not Present                         |         | RBS7-393 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 1                                   |         | RBS7-394 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | DCH                                 |         | RBS7-395 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 4                                   |         | RBS7-396 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | Configured                          |         | RBS7-398 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |                                     |         | RBS7-400 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 1                                   |         | RBS7-401 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | DCH                                 |         | RBS7-402 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 9                                   |         | RBS7-403 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | Not Present                         |         | RBS7-404 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | Not Present                         |         | RBS7-405 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | Not Present                         |         | RBS7-406 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 1                                   |         | RBS7-407 |
| <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> <li>- RLC size index</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of downlink RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- Logical channel identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        | RACH                                |         | RBS7-408 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | Not Present                         |         | RBS7-409 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 7                                   |         | RBS7-410 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | Explicit list                       |         | RBS7-411 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | Reference to clause 6 Parameter Set |         | RBS7-412 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 8                                   |         | RBS7-413 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |                                     |         | RBS7-414 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 1                                   |         | RBS7-415 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | FACH                                |         | RBS7-416 |
| <ul style="list-style-type: none"> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- Logical channel identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        | Not Present                         |         | RBS7-417 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | Not Present                         |         | RBS7-418 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        | 7                                   |         | RBS7-419 |
| RB information to reconfigure list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A1, A2, A3, A4, A5, A6, A7, A8 A9, A10 | Not Present                         |         | RBS7-420 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |                                     | Rel-5   | RBS7-421 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |                                     | Rel-6   | RBS7-422 |

| Information Element                                                | Condition                                                                                                                                    | Value/remark                                                                                         | Version            | Index                                                                |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------|
| RB information to be affected                                      | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10                                                                                                 | Not Present                                                                                          | Rel-5<br>Rel-6     | RBS7-423<br>RBS7-424<br>RBS7-425                                     |
| Downlink counter synchronization info                              | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10                                                                                                 | Not Present                                                                                          | Rel-5<br>Rel-6     | RBS7-426<br>RBS7-427<br>RBS7-428                                     |
| PDCP ROHC target mode                                              | A9, A10                                                                                                                                      | Not Present                                                                                          | Rel-5<br>Rel-6     | RBS7-429<br>RBS7-430<br>RBS7-431                                     |
| UL Transport channel information common for all transport channels | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10                                                                                                 | Not Present                                                                                          | Rel-5              | RBS7-432<br>RBS7-433<br>RBS7-434<br>RBS7-435                         |
| information                                                        | - PRACH TFCS<br>- CHOICE mode<br>- Individual UL CCTrCH                                                                                      | TDD                                                                                                  |                    |                                                                      |
|                                                                    | - UL TFCS Identity                                                                                                                           | 1                                                                                                    |                    | RBS7-436                                                             |
|                                                                    | - TFCS ID                                                                                                                                    | FALSE                                                                                                |                    | RBS7-437                                                             |
|                                                                    | - Shared Channel Indicator                                                                                                                   |                                                                                                      |                    | RBS7-438                                                             |
|                                                                    | - UL TFCS                                                                                                                                    |                                                                                                      |                    | RBS7-439                                                             |
|                                                                    | - CHOICE TFCI signalling                                                                                                                     | Normal                                                                                               | R99 and Rel-4 only | RBS7-440                                                             |
|                                                                    | - TFCI Field 1 information                                                                                                                   |                                                                                                      |                    | RBS7-441                                                             |
|                                                                    | - CHOICE TFCS representation                                                                                                                 | Complete reconfiguration                                                                             |                    | RBS7-442                                                             |
| information                                                        | - TFCS complete reconfigure                                                                                                                  |                                                                                                      |                    | RBS7-443                                                             |
|                                                                    | - CHOICE CTFC Size                                                                                                                           | Number of bits used must be enough to cover all combinations of CTFC from clause 6.11 Parameter Set. |                    | RBS7-444                                                             |
|                                                                    | - CTFC information                                                                                                                           | This IE is repeated for TFC numbers and reference to clause 6.11 Parameter Set                       |                    | RBS7-445                                                             |
|                                                                    | - CTFC                                                                                                                                       | Reference to clause 6.11 Parameter Set                                                               |                    | RBS7-446                                                             |
|                                                                    | - Power offset information                                                                                                                   |                                                                                                      |                    | RBS7-447                                                             |
|                                                                    | - CHOICE Gain Factors                                                                                                                        | Computed Gain Factors(The last TFC is set to Signalled Gain Factors)                                 |                    | RBS7-448                                                             |
|                                                                    | - Reference TFC ID                                                                                                                           | 0 Integer(0.. 3)                                                                                     |                    | RBS7-449                                                             |
|                                                                    | - CHOICE mode                                                                                                                                | TDD                                                                                                  |                    | RBS7-450                                                             |
|                                                                    | - CHOICE Gain Factors                                                                                                                        | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)        |                    | RBS7-451                                                             |
|                                                                    | - CHOICE mode                                                                                                                                | TDD                                                                                                  |                    | RBS7-452                                                             |
|                                                                    | - Gain factor $\beta_d$                                                                                                                      | 8                                                                                                    |                    | RBS7-453                                                             |
|                                                                    | - Reference TFC ID                                                                                                                           | 0                                                                                                    |                    | RBS7-454                                                             |
|                                                                    | - CHOICE mode                                                                                                                                | TDD                                                                                                  |                    | RBS7-455                                                             |
|                                                                    | - TFC subset                                                                                                                                 | Not Present                                                                                          |                    | RBS7-456                                                             |
|                                                                    | - TFC subset list                                                                                                                            | Not Present                                                                                          |                    | RBS7-457                                                             |
| UL Transport channel information for all transport channels        |                                                                                                                                              | Not Present                                                                                          | Rel-6              | RBS7-458                                                             |
| Deleted UL TrCH information                                        | A1, A2, A3, A4, A5, A6, A7, A8, A11, A9, A10                                                                                                 | Not Present                                                                                          | Rel-5<br>Rel-6     | RBS7-459<br>RBS7-460<br>RBS7-461<br>RBS7-462                         |
| Added or Reconfigured UL TrCH information                          | A1, A3 A4, A5, A6, A7, A9, A10                                                                                                               | 1 DCH added, 1 DCH reconfigured (if from cell_DCH) OR 2 DCHs added (if from cell_FACH)<br>DCH<br>1   | Rel-5              | RBS7-463<br>RBS7-464<br>RBS7-465<br>RBS7-466<br>RBS7-467<br>RBS7-468 |
| information                                                        | - Uplink transport channel type<br>- UL Transport channel identity<br>- TFS<br>- CHOICE Transport channel type<br>- Dynamic Transport format | Dedicated transport channels                                                                         |                    |                                                                      |
|                                                                    | - RLC Size<br>- Number of TBs and TTI List                                                                                                   | Reference to clause 6.11 Parameter Set<br>(This IE is repeated for TFI number.)                      |                    | RBS7-469<br>RBS7-470                                                 |

| Information Element                                                                                                                                         | Condition | Value/remark                               | Version | Index                                  |  |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------|---------|----------------------------------------|--|----------|
| - Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel list<br>- Semi-static Transport Format<br>information              |           | Not Present                                |         | RBS7-471                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-472                               |  |          |
|                                                                                                                                                             |           | All                                        |         | RBS7-473                               |  |          |
|                                                                                                                                                             |           |                                            |         | RBS7-474                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-475                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-476                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-477                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-478                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-479                               |  |          |
|                                                                                                                                                             |           | DCH                                        |         | RBS7-480                               |  |          |
| - Uplink transport channel type<br>- UL Transport channel identity<br>- TFS<br>- CHOICE Transport channel type<br>- Dynamic Transport format<br>information |           | 5                                          |         | RBS7-481                               |  |          |
|                                                                                                                                                             |           |                                            |         | RBS7-482                               |  |          |
|                                                                                                                                                             |           | Dedicated transport channels               |         | RBS7-483                               |  |          |
|                                                                                                                                                             |           |                                            |         | RBS7-484                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-485                               |  |          |
|                                                                                                                                                             |           | (This IE is repeated for TFI number.)      |         | RBS7-486                               |  |          |
|                                                                                                                                                             |           | Not Present                                |         | RBS7-487                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-488                               |  |          |
|                                                                                                                                                             |           | All                                        |         | RBS7-489                               |  |          |
|                                                                                                                                                             |           |                                            |         | RBS7-490                               |  |          |
| - Transmission time interval<br>- Type of channel coding<br>- Coding Rate<br>- Rate matching attribute<br>- CRC size<br>information                         |           | Reference to clause 6.11 Parameter Set     |         | RBS7-491                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-492                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-493                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-494                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-495                               |  |          |
|                                                                                                                                                             |           | 1 DCH added for DTCH                       |         | RBS7-496                               |  |          |
|                                                                                                                                                             |           | DCH                                        |         | RBS7-497                               |  |          |
|                                                                                                                                                             |           | 4                                          |         | RBS7-498                               |  |          |
|                                                                                                                                                             |           |                                            |         | RBS7-499                               |  |          |
|                                                                                                                                                             |           | Dedicated transport channels               |         | RBS7-500                               |  |          |
| - Dynamic Transport format<br>information                                                                                                                   |           |                                            |         | RBS7-501                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-502                               |  |          |
|                                                                                                                                                             |           | (This IE is repeated for TFI number.)      |         | RBS7-503                               |  |          |
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|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-510                               |  |          |
| - Rate matching attribute<br>- CRC size<br>Added or Reconfigured UL TrCH<br>information                                                                     | A11       | Reference to clause 6.11 Parameter Set     |         | RBS7-511                               |  |          |
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|                                                                                                                                                             |           | 4 TrCHs(DCH for DCCH and 3DCHs for DTCH)   |         | RBS7-513                               |  |          |
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|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-519                               |  |          |
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| - Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel list<br>- Semi-static Transport Format<br>information              | A2, A8    | Not Present                                |         | RBS7-521                               |  |          |
|                                                                                                                                                             |           | Reference to clause 6.11 Parameter Set     |         | RBS7-522                               |  |          |
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|                                                                                                                                                             |           | - Coding Rate<br>- Rate matching attribute |         | Reference to clause 6.11 Parameter Set |  | RBS7-527 |
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| <ul style="list-style-type: none"> <li>- CRC size</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport format</li> </ul> information |                         | Reference to clause 6.11 Parameter Set DCH |         | RBS7-529 |
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| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Condition                               | Value/remark                                                                                                                                                                                                                                                                                                                    | Version        | Index                                                                                                                                                                                                                                                                                                |
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| <ul style="list-style-type: none"> <li>- SCCPCH TFCS</li> <li>- CHOICE mode</li> <li>- Individual DL CCTrCH information</li> <li>- DL TFCS identity</li> <li>- CHOICE DL parameters</li> <li>- DL TFCS</li> <li>- TFCI Field 1 Information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfigure</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- CTFC</li> <li>- Power offset information</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         | Not Present<br>TDD<br>1 CCTrCh<br><br>1<br>Independent<br><br>Complete reconfiguration<br><br>Number of bits used must be enough to cover all combinations of CTFC from clause 6.11 Parameter Set.<br>This IE is repeated for TFC numbers and reference to clause 6.11<br>Reference to clause 6.11 Parameter Set<br>Not Present |                | RBS7-588<br>RBS7-589<br>RBS7-590<br><br>RBS7-591<br>RBS7-592<br>RBS7-593<br>RBS7-594<br>RBS7-595<br>RBS7-596<br>RBS7-597<br><br>RBS7-598<br><br>RBS7-599<br>RBS7-600                                                                                                                                 |
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| Deleted DL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1, A2, A3, A4, A5, A6, A7, A8, A9, A10 | Not Present                                                                                                                                                                                                                                                                                                                     |                | RBS7-617                                                                                                                                                                                                                                                                                             |
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| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul> Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> </ul> | A1<br><br><br>A3, A4, A5, A6, A7        | 1 DCH added, 1 DCH reconfigured<br><br>DCH<br>6<br>Same as UL<br>DCH<br>1<br><br>-2.0<br>DCH<br>10<br>Same as UL<br>DCH<br>5<br><br>-2.0<br>2 TrCHs(DCH for DCCH and DCH for DTCH)<br>DCH<br>10<br>Same as UL<br>DCH<br>5<br><br>-2.0<br>DCH                                                                                    |                | RBS7-620<br><br>RBS7-621<br>RBS7-622<br>RBS7-623<br>RBS7-624<br>RBS7-625<br>RBS7-626<br>RBS7-627<br>RBS7-628<br>RBS7-629<br>RBS7-630<br>RBS7-631<br>RBS7-632<br>RBS7-633<br>RBS7-634<br>RBS7-635<br><br>RBS7-636<br>RBS7-637<br>RBS7-638<br>RBS7-639<br>RBS7-640<br>RBS7-641<br>RBS7-642<br>RBS7-643 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Condition | Value/remark                                                                 | Version | Index    |
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| <ul style="list-style-type: none"> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> </ul><br><ul style="list-style-type: none"> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format</li> </ul> information <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> </ul><br><ul style="list-style-type: none"> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format</li> </ul> information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | 6                                                                            |         | RBS7-644 |
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| Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format</li> </ul> information <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Dynamic transport format</li> </ul> information <ul style="list-style-type: none"> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format</li> </ul> information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format</li> </ul> information <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Dynamic transport format</li> </ul> information <ul style="list-style-type: none"> <li>- Transmission Time Interval</li> </ul> | A2, A8    | Reference to clause 6.11 Parameter Set                                       |         | RBS7-659 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Explicit                                                                     |         | RBS7-672 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                              |         | RBS7-673 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Dedicated transport channel                                                  |         | RBS7-674 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                              |         | RBS7-675 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) |         | RBS7-676 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                              |         | RBS7-677 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                              |         | RBS7-678 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Not Present                                                                  |         | RBS7-679 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Reference to clause 6.11 Parameter Set                                       |         | RBS7-680 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | All                                                                          |         | RBS7-681 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                              |         | RBS7-682 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Reference to clause 6.11 Parameter Set                                       |         | RBS7-683 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Reference to clause 6.11 Parameter Set                                       |         | RBS7-684 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Reference to clause 6.11 Parameter Set                                       |         | RBS7-685 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Reference to clause 6.11 Parameter Set                                       |         | RBS7-686 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Reference to clause 6.11 Parameter Set                                       |         | RBS7-687 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                              |         | RBS7-688 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Not Present                                                                  |         | RBS7-689 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | DCH                                                                          |         | RBS7-690 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | 7                                                                            |         | RBS7-691 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Explicit                                                                     |         | RBS7-692 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                              |         | RBS7-693 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Dedicated transport channel                                                  |         | RBS7-694 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                              |         | RBS7-695 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) |         | RBS7-696 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                              |         | RBS7-697 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                              |         | RBS7-698 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Not Present                                                                  |         | RBS7-699 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Condition | Value/remark                                                                 | Version        | Index    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------|----------------|----------|
| <ul style="list-style-type: none"> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format information</li> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Reference to clause 6.11 Parameter Set All                                   |                | RBS7-700 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-701 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-702 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-703 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-704 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-705 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-706 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-707 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-708 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                                                                  |                | RBS7-709 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | DCH                                                                          |                | RBS7-710 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 8                                                                            |                | RBS7-711 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Explicit                                                                     |                | RBS7-712 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-713 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Dedicated transport channel                                                  |                | RBS7-714 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-715 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) |                | RBS7-716 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-717 |
| <ul style="list-style-type: none"> <li>- Dynamic transport format information</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul> Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> </ul> </li> <li>- DCH quality target <ul style="list-style-type: none"> <li>- BLER Quality value</li> </ul> </li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format information</li> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Dynamic transport format information</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> <li>- Downlink transport channel type</li> </ul> | A9        | Not Present                                                                  | Rel-5<br>Rel-6 | RBS7-718 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.10 Parameter Set All                                   |                | RBS7-719 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-720 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-721 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-722 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-723 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-724 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-725 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-726 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-727 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-728 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                                                                  |                | RBS7-729 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 3 TrCHs (DCH for DCCH and DCH plus HS-DSCH for DTCH)                         |                | RBS7-730 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | DCH                                                                          |                | RBS7-731 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 10                                                                           |                | RBS7-732 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Same as UL                                                                   |                | RBS7-733 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | DCH                                                                          |                | RBS7-734 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 5                                                                            |                | RBS7-735 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-736 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-737 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | -2.0                                                                         |                | RBS7-738 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | DCH                                                                          |                | RBS7-739 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 6                                                                            |                | RBS7-740 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Explicit                                                                     |                | RBS7-741 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-742 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Dedicated transport channel                                                  |                | RBS7-743 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-744 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set (This IE is repeated for TFI number.) |                | RBS7-745 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-746 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Not Present                                                                  |                | RBS7-748 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set All                                   |                | RBS7-749 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-750 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-751 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-752 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-753 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-754 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-755 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Reference to clause 6.11 Parameter Set                                       |                | RBS7-756 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                              |                | RBS7-757 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | -2.0                                                                         |                | RBS7-758 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | HS-DSCH                                                                      |                | RBS7-759 |



| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Condition                                                  | Value/remark                                                                                                                                                                                                                                                                                                                                                                       | Version                                                | Index                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul>                                                                                                                                                                                                                                                                                                                  |                                                            | Reference to clause 6.11 Parameter Set<br>Reference to clause 6.11 Parameter Set<br>Reference to clause 6.11 Parameter Set<br>Reference to clause 6.11 Parameter Set<br><br>-2.0                                                                                                                                                                                                   |                                                        | RBS7-816<br>RBS7-817<br>RBS7-818<br>RBS7-819<br>RBS7-820<br>RBS7-821                                                                                                                                                                                                         |
| Frequency info<br>DTX-DRX timing information<br>DTX-DRX information<br>HS-SCCH less information<br>MIMO parameters<br>Maximum allowed UL TX power                                                                                                                                                                                                                                                                                                                                                                                     | A6<br><br><br><br><br>A1, A2, A3, A4, A7, A8, A11, A9, A10 | Not Present<br>Not Present<br>Not Present<br>Not Present<br>Not Present<br>33dBm                                                                                                                                                                                                                                                                                                   | Rel-7<br>Rel-7<br>Rel-7<br>Rel-7<br><br>Rel-5<br>Rel-6 | RBS7-822<br>RBS7-823<br>RBS7-824<br>RBS7-825<br>RBS7-826<br>RBS7-827<br><br>RBS7-828<br>RBS7-829<br>RBS7-830                                                                                                                                                                 |
| Maximum allowed UL TX power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A5, A6                                                     | Not Present                                                                                                                                                                                                                                                                                                                                                                        |                                                        | RBS7-830                                                                                                                                                                                                                                                                     |
| CHOICE channel requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A1, A2, A3, A4, A7, A8, A9, A10, A11                       | Uplink DPCH info                                                                                                                                                                                                                                                                                                                                                                   | R99 and Rel-4 only                                     | RBS7-831                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>- Uplink DPCH power control info</li> <li>- CHOICE mode</li> <li>- UL target SIR</li> <li>- CHOICE UL OL PC info</li> <li>- CHOICE mode</li> <li>- Uplink Timing Advance Control</li> <li>- CHOICE Timing Advance</li> <li>- CHOICE TDD option</li> <li>- Extended UL Timing Advance</li> </ul>                                                                                                                                                                                                |                                                            | TDD<br>Not Present<br>Broadcast UL OL PC info<br>TDD<br><br>Enabled<br>7.68 Mcps TDD<br>Determined by observed timing deviation of the RACH at the node B                                                                                                                                                                                                                          | <br><br><br><br><br><br>Rel-7<br>Rel-7                 | RBS7-832<br>RBS7-833<br>RBS7-834<br>RBS7-835<br>RBS7-836<br>RBS7-837<br>RBS7-838<br>RBS7-839<br>RBS7-840                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>- UL CCTrCH List</li> <li>- TFCS Id</li> <li>- UL target SIR</li> <li>- Activation time</li> <li>- Duration</li> <li>- Common timeslot info</li> <li>- 2<sup>nd</sup> interleaving mode</li> <li>- TFCI coding</li> <li>- Puncturing Limit</li> <li>- Repetition Period</li> <li>- Repetition Length</li> <li>- CHOICE TDD option</li> <li>- Uplink DPCH timeslots and codes VHCRC</li> <li>- Dynamic SF usage</li> <li>- First individual timeslot info</li> <li>- Timeslot number</li> </ul> |                                                            | 1 CCTrCh<br>1<br>+20dB<br>Not present<br>Not present<br><br>Reference to clause 6.11 Parameter Set<br>Reference to clause 6.11 Parameter Set<br>Reference to clause 6.11 Parameter Set<br>Reference to clause 6.11 Parameter Set<br>Reference to clause 6.11 Parameter Set<br>7.68 Mcps TDD<br><br>TRUE<br><br>The number of an uplink timeslot that has unassigned codes.<br>TRUE | <br><br><br><br><br><br>Rel-7<br>Rel-7                 | RBS7-841<br>RBS7-842<br>RBS7-843<br>RBS7-844<br>RBS7-845<br>RBS7-846<br>RBS7-847<br>RBS7-848<br>RBS7-849<br>RBS7-850<br>RBS7-851<br>RBS7-852<br>RBS7-853<br><br>RBS7-854<br>RBS7-855<br>RBS7-856<br><br>RBS7-857<br>RBS7-858<br>RBS7-859<br>RBS7-860<br>RBS7-861<br>RBS7-862 |
| <ul style="list-style-type: none"> <li>- CHOICE TDD option</li> <li>- First timeslot Code List</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            | 7.68 Mcps<br>Reference to clause 6.11 Parameter Set<br>Default<br>Choose lowest possible Kcell value given burst type<br>7.68 Mcps TDD<br>Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6.11 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in clause 6.11 Parameter Set.                       | Rel-7<br><br>Rel-7                                     | RBS7-863<br>RBS7-864                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>- Channelisation code</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | The presence of this IE depends upon the number of resources specified in clause 6.11 Parameter Set and the number of slots in which they are being assigned.                                                                                                                                                                                                                      |                                                        | RBS7-865                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>- CHOICE more timeslots</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            |                                                                                                                                                                                                                                                                                                                                                                                    |                                                        | RBS7-866                                                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>- UL CCTrCH List to Remove</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            | Not present                                                                                                                                                                                                                                                                                                                                                                        |                                                        | RBS7-867                                                                                                                                                                                                                                                                     |

| Information Element                             | Condition                           | Value/remark                                                                       | Version            | Index                |
|-------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------|--------------------|----------------------|
| CHOICE channel requirement                      | A5,A6                               | Not Present                                                                        | Rel-5 and earlier  | RBS7-868             |
| CHOICE Mode                                     | A1, A2, A3, A4, A5, A6, A7, A8, A11 | TDD                                                                                | R99 and Rel-4 only | RBS7-869<br>RBS7-870 |
| Downlink HS-PDSCH Information                   | A1, A2, A3, A4, A5, A6, A7, A8, A11 | Not Present                                                                        | Rel-5              | RBS7-871             |
| Downlink HS-PDSCH Information                   | A9, A10                             |                                                                                    | Rel-5              | RBS7-872             |
| - HS-SCCH Info                                  |                                     |                                                                                    | Rel-6              | RBS7-873             |
| - CHOICE mode                                   |                                     | TDD                                                                                |                    | RBS7-874             |
| - CHOICE TDD option                             |                                     | 7.68 Mcps                                                                          |                    | RBS7-875             |
| - Ack-Nack Power Offset                         |                                     | 0dB                                                                                | Rel-7              | RBS7-876             |
| - HS-SICH Power Control Info                    |                                     |                                                                                    |                    | RBS7-877             |
| - UL SIR target                                 |                                     | 0dB                                                                                |                    | RBS7-878             |
| - HS-SICH Constant Value                        |                                     | -10dB                                                                              |                    | RBS7-879             |
| - $D_{hs-sync}$                                 |                                     | Not present                                                                        |                    | RBS7-880             |
| - HS-SCCH Set Configuration                     |                                     | 4                                                                                  |                    | RBS7-881             |
| - Timeslot number                               |                                     | The timeslot in which HS-SCCH is to be configured                                  |                    | RBS7-882             |
| - Channelisation code                           |                                     | CC32/x where x is a previously unassigned channelisation code in this TS           |                    | RBS7-883             |
| - Midamble Allocation mode                      |                                     | Default                                                                            |                    | RBS7-884             |
| - Midamble configuration                        |                                     | 8                                                                                  |                    | RBS7-885             |
| - BLER target                                   |                                     | -2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$ ) |                    | RBS7-886             |
| - HS-SICH configuration                         |                                     |                                                                                    |                    | RBS7-887             |
| - Timeslot number                               |                                     | The timeslot in which HS-SICH is to be configured                                  |                    | RBS7-888             |
| - Channelisation code                           |                                     | CC32/x where x is a previously unassigned channelisation code in this TS           |                    | RBS7-889             |
| - Midamble Allocation mode                      |                                     | Default                                                                            |                    | RBS7-890             |
| - Midamble configuration                        |                                     | 8                                                                                  |                    | RBS7-891             |
| - Measurement Feedback Info                     |                                     | Not Present                                                                        |                    | RBS7-892             |
| - CHOICE mode                                   |                                     | TDD                                                                                |                    | RBS7-893             |
| - CHOICE TDD option                             |                                     | 7.68 Mcps TDD                                                                      | Rel-7              | RBS7-894             |
| - HS-PDSCH Timeslot                             |                                     |                                                                                    |                    | RBS7-895             |
| Configuration VHCR                              |                                     |                                                                                    |                    | RBS7-896             |
| - HS-PDSCH Timeslot                             |                                     | Reference to clause 6.11 Parameter Set                                             |                    | RBS7-897             |
| Configuration List                              |                                     |                                                                                    |                    | RBS7-898             |
| - Timeslot Number                               |                                     | The timeslot(s) in which HS-HS-DSCH is to be configured                            |                    | RBS7-899             |
| - CHOICE Burst Type                             |                                     | Reference to clause 6.11 Parameter Set                                             |                    | RBS7-900             |
| - Midamble Allocation Mode                      |                                     | Default                                                                            |                    | RBS7-901             |
| - Midamble configuration burst type             |                                     | 8                                                                                  |                    | RBS7-902             |
| 1 and 3                                         |                                     |                                                                                    |                    |                      |
| Downlink information common for all radio links | A5, A6                              | Not present                                                                        |                    | RBS7-903             |
| Downlink information common for all radio links | A1, A2, A3, A9, A11                 |                                                                                    |                    | RBS7-904             |
| - CHOICE DPCH info                              |                                     | Downlink DPCH info common for all RL                                               | Rel-6              | RBS7-905             |
| - Timing indication                             |                                     | Maintain                                                                           |                    | RBS7-906             |
| - CFN-targetSFN frame offset                    |                                     | Not Present                                                                        | R99 and Rel-4 only | RBS7-907             |
| - Downlink DPCH power control information       |                                     |                                                                                    |                    | RBS7-908             |
| - CHOICE mode                                   |                                     | TDD                                                                                |                    | RBS7-909             |
| - TPC Step Size                                 |                                     | 1                                                                                  |                    | RBS7-910             |
| - MAC-d HFN initial value                       |                                     | Not Present                                                                        |                    | RBS7-911             |
| - CHOICE mode                                   |                                     | TDD                                                                                |                    | RBS7-912             |
| - CHOICE mode                                   |                                     | TDD                                                                                |                    | RBS7-913             |
| - CHOICE TDD option                             |                                     | 7.68 Mcps TDD                                                                      | Rel-7              | RBS7-914             |
| - Default DPCH Offset Value                     |                                     | Not Present                                                                        |                    | RBS7-915             |
| - Mac-hs reset indicator                        |                                     | Not Present                                                                        |                    | RBS7-916             |
| Downlink information common for all             | A4, A7, A8, A10                     |                                                                                    |                    |                      |

| Information Element                           | Condition                            | Value/remark                                                                                                                                          | Version            | Index    |
|-----------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| radio links                                   | A1, A2, A3, A4, A7, A8, A9, A10, A11 | Downlink DPCH info common for all RL                                                                                                                  | Rel-6              | RBS7-917 |
| - CHOICE DPCH info                            |                                      | Initialise                                                                                                                                            | R99 and Rel-4 only | RBS7-918 |
| - Timing indication                           |                                      | Not Present                                                                                                                                           |                    | RBS7-919 |
| - CFN-targetSFN frame offset                  |                                      |                                                                                                                                                       |                    | RBS7-920 |
| - Downlink DPCH power control information     |                                      |                                                                                                                                                       |                    |          |
| - CHOICE mode                                 |                                      | TDD                                                                                                                                                   |                    | RBS7-921 |
| - TPC Step Size                               |                                      | 1                                                                                                                                                     |                    | RBS7-922 |
| - MAC-d HFN initial value                     |                                      | Not Present                                                                                                                                           |                    | RBS7-923 |
| - CHOICE mode                                 |                                      | TDD                                                                                                                                                   |                    | RBS7-924 |
| - CHOICE mode                                 |                                      | TDD                                                                                                                                                   |                    | RBS7-925 |
| - CHOICE TDD option                           |                                      | 7.68 Mcps TDD                                                                                                                                         | Rel-7              | RBS7-926 |
| - Default DPCH Offset Value                   |                                      | Not Present                                                                                                                                           |                    | RBS7-927 |
| - Mac-hs reset indicator                      |                                      | Not Present                                                                                                                                           |                    | RBS7-928 |
| Downlink information for each radio link list |                                      | 1                                                                                                                                                     |                    | RBS7-929 |
| - Downlink information for each radio link    |                                      |                                                                                                                                                       |                    | RBS7-930 |
| - Choice mode                                 |                                      | 7.68 Mcps TDD                                                                                                                                         | Rel-7              | RBS7-931 |
| - Primary CCPCH info                          |                                      |                                                                                                                                                       |                    | RBS7-932 |
| - Choice mode                                 |                                      | TDD                                                                                                                                                   |                    | RBS7-933 |
| - CHOICE TDD option                           |                                      | 7.68 Mcps TDD                                                                                                                                         | Rel-7              | RBS7-934 |
| - CHOICE SyncCase                             |                                      | Sync Case 2                                                                                                                                           |                    | RBS7-935 |
| - Timeslot                                    |                                      | 0                                                                                                                                                     |                    | RBS7-936 |
| - Cell parameters ID                          |                                      | 10                                                                                                                                                    |                    | RBS7-937 |
| - SCTD indicator                              |                                      | FALSE                                                                                                                                                 |                    | RBS7-938 |
| - CHOICE DPCH info                            |                                      | Downlink DPCH info for each RL                                                                                                                        | Rel-6              | RBS7-939 |
| - CHOICE mode                                 |                                      | TDD                                                                                                                                                   |                    | RBS7-940 |
| - DL CCTrCH List                              |                                      | 1 CCTrCH                                                                                                                                              |                    | RBS7-941 |
| - TFCS ID                                     |                                      | 1                                                                                                                                                     |                    | RBS7-942 |
| - Activation time                             |                                      | Not Present                                                                                                                                           |                    | RBS7-943 |
| - Duration                                    |                                      | Not Present                                                                                                                                           |                    | RBS7-944 |
| - Common timeslot info                        |                                      |                                                                                                                                                       |                    | RBS7-945 |
| - 2 <sup>nd</sup> interleaving mode           |                                      |                                                                                                                                                       |                    | RBS7-946 |
| - TFCI coding                                 |                                      | Reference to clause 6.11 Parameter Set                                                                                                                |                    | RBS7-947 |
| - Puncturing Limit                            |                                      | Reference to clause 6.11 Parameter Set                                                                                                                |                    | RBS7-948 |
| - Repetition Period                           |                                      | Reference to clause 6.11 Parameter Set                                                                                                                |                    | RBS7-949 |
| - Repetition Length                           |                                      | Reference to clause 6.11 Parameter Set                                                                                                                |                    | RBS7-950 |
| - Downlink DPCH timeslots and codes VHCR      |                                      |                                                                                                                                                       | Rel-7              | RBS7-951 |
| - Individual timeslot info                    |                                      |                                                                                                                                                       |                    | RBS7-952 |
| - Timeslot number                             |                                      | The number of a downlink timeslot that has unassigned codes.                                                                                          |                    | RBS7-953 |
| - TFCI existence                              |                                      | TRUE                                                                                                                                                  |                    | RBS7-954 |
| - Midamble shift and burst type               |                                      |                                                                                                                                                       |                    | RBS7-955 |
| - CHOICE TDD option                           |                                      | 7.68 Mcps                                                                                                                                             | Rel-7              | RBS7-956 |
| - CHOICE Burst Type                           |                                      | Reference to clause 6.11 Parameter Set                                                                                                                |                    | RBS7-957 |
| - Midamble Allocation Mode                    |                                      | Default                                                                                                                                               |                    | RBS7-958 |
| - Midamble configuration                      |                                      | Set Kcell to lowest possible value given the number of codes defined in clause 6.11 Parameter Set                                                     |                    | RBS7-959 |
| - CHOICE TDD option                           |                                      | 7.68 Mcps                                                                                                                                             | Rel-7              | RBS7-960 |
| - First timeslot channelisation               |                                      |                                                                                                                                                       | Rel-7              | RBS7-961 |
| codes VHCR                                    |                                      |                                                                                                                                                       |                    |          |
| - CHOICE codes                                |                                      | Consecutive codes                                                                                                                                     |                    | RBS7-962 |
| representation                                |                                      |                                                                                                                                                       |                    |          |
| - First channelisation code                   |                                      | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6.11 Parameter Set.                                   |                    | RBS7-963 |
| - Last channelisation code                    |                                      | (j/SF) where j is the highest numbered code that is being assigned in the slot as specified in clause 6.11 Parameter Set.                             |                    | RBS7-964 |
| - CHOICE more timeslots                       |                                      | The presence of this IE depends upon whether the requirements of clause 6.11 Parameter Set t could be met by the codes that have been assigned in the |                    | RBS7-965 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Condition                              | Value/remark         | Version                                          | Index    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------|--------------------------------------------------|----------|
| <ul style="list-style-type: none"> <li>- UL CCTrCH TPC List</li> <li>- UL TPC TFCS Identity</li> <li>- TFCS ID</li> <li>- Shared channel indicator</li> <li>- DL CCTrCH List to Remove</li> <li>- SCCPCH information for FACH</li> <li>- E-AGCH Info</li> <li>- CHOICE E-HICH Information</li> <li>- CHOICE E-RGCH Information</li> </ul>                                                                                                                                                          | A5                                     | first timeslot.<br>1 | R99 and<br>Rel-4 only<br>Rel-6<br>Rel-6<br>Rel-6 | RBS7-966 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | 1                    |                                                  | RBS7-967 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | False                |                                                  | RBS7-968 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Not Present          |                                                  | RBS7-969 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Not Present          |                                                  | RBS7-970 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Not Present          |                                                  | RBS7-971 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Not Present          |                                                  | RBS7-972 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Not Present          |                                                  | RBS7-973 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Not Present          |                                                  | RBS7-974 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Not Present          |                                                  | RBS7-975 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                      |                                                  | RBS7-976 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | TDD                  |                                                  | RBS7-977 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | TDD                  |                                                  | RBS7-978 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | 7.68 Mcps TDD        |                                                  | RBS7-979 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Sync Case 2          |                                                  | RBS7-980 |
| <ul style="list-style-type: none"> <li>- Downlink information for each radio link list</li> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CCPCH info</li> <li>- Choice mode</li> <li>- CHOICE TDD option</li> <li>- CHOICE SyncCase</li> <li>- Timeslot</li> <li>- Cell parameters ID</li> <li>- SCTD indicator</li> <li>- CHOICE DPCH info</li> <li>- E-AGCH Info</li> <li>- CHOICE E-HICH Information</li> <li>- CHOICE E-RGCH Information</li> </ul> | A6                                     | 0                    | Rel-6<br>Rel-6<br>Rel-6<br>Rel-6                 | RBS7-981 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | 10                   |                                                  | RBS7-982 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | FALSE                |                                                  | RBS7-983 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Not present          |                                                  | RBS7-984 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Not Present          |                                                  | RBS7-985 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Not Present          |                                                  | RBS7-986 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Not Present          |                                                  | RBS7-987 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Not Present          |                                                  | RBS7-988 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        | Not present          |                                                  | RBS7-989 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                      |                                                  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                      |                                                  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                      |                                                  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                      |                                                  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                      |                                                  |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                      |                                                  |          |
| Downlink information for each radio link list<br>MBMS PL Service Restriction Information                                                                                                                                                                                                                                                                                                                                                                                                           | A1, A2, A3, A4, A5, A6, A7, A8 A9, A10 | Not Present          | Rel-5<br>Rel-6                                   | RBS7-990 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                      |                                                  | RBS7-991 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |                      |                                                  | RBS7-992 |

| Condition | Explanation                                                                                                                                                                 | Version |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| A1        | This IE is needed for "Non speech to CELL_DCH from CELL_DCH in CS"                                                                                                          | Rel-5   |
| A2        | This IE is needed for "Speech to CELL_DCH from CELL_DCH in CS"                                                                                                              |         |
| A3        | This IE is needed for "Packet to CELL_DCH from CELL_DCH in PS"                                                                                                              |         |
| A4        | This IE is needed for "Packet to CELL_DCH from CELL_FACH in PS"                                                                                                             |         |
| A5        | This IE is needed for "Packet to CELL_FACH from CELL_DCH in PS"                                                                                                             |         |
| A6        | This IE is needed for "Packet to CELL_FACH from CELL_FACH in PS"                                                                                                            |         |
| A7        | This IE is needed for "Non speech to CELL_DCH from CELL_FACH in CS"                                                                                                         |         |
| A8        | This IE is needed for "Speech to CELL_DCH from CELL_FACH in CS"                                                                                                             |         |
| A9        | This IE is needed for "Packet to CELL_DCH / HS-DSCH using three multiplexing options", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS" |         |
| A10       | This IE is needed for "Packet to CELL_DCH / HS-DSCH using one multiplexing option", or when not stated otherwise, for "Packet to CELL_DCH / HS-DSCH from CELL_FACH in PS"   | Rel-5   |
| A11       | This IE is needed for "Packet RAB Setup after Speech RAB Setup in CELL_DCH"                                                                                                 |         |

## Contents of RADIO BEARER SETUP COMPLETE message: AM

| Information Element                         | Value/remark                                                                                                                                                                                         | Version |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                |                                                                                                                                                                                                      |         |
| RRC transaction identifier                  | Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message.                                                                                                  |         |
| Integrity check info                        |                                                                                                                                                                                                      |         |
| - Message authentication code               | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         |
| - RRC Message sequence number               | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |         |
| Uplink integrity protection activation info | Not checked.                                                                                                                                                                                         |         |
| CHOICE mode                                 | TDD                                                                                                                                                                                                  |         |



|                                                    |                                                                                                                                                                                                               |       |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| - CHOICE <i>TDD option</i><br>START                | Check that this IE is present<br>Not checked (if ciphering is OFF), check the presence if ciphering is ON.                                                                                                    | Rel-4 |
| COUNT-C activation time                            | The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB establishment procedure. Else, this IE is absent. |       |
| Radio bearer uplink ciphering activation time info | If ciphering is not activated in RADIO BEARER SETUP message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs.               |       |
| Uplink counter synchronization info                | Not present                                                                                                                                                                                                   |       |

## Contents of RADIO BEARER SETUP FAILURE message: AM

| Information Element                                          | Value/remark                                                                                                                                                                                         |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                 | Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message.                                                                              |
| RRC transaction identifier                                   |                                                                                                                                                                                                      |
| Integrity check info                                         | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code                                |                                                                                                                                                                                                      |
| - RRC Message sequence number                                | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                                | Checked to see if it meets test requirement                                                                                                                                                          |
| Radio bearers for which reconfiguration would have succeeded | Not Check                                                                                                                                                                                            |

## Contents of RADIO BEARER RELEASE COMPLETE message: AM (1.28 Mcps TDD)

| Information Element                                | Value/remark                                                                                                                                                                                            | Version |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                       | Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message.                                                                                                      |         |
| RRC transaction identifier                         |                                                                                                                                                                                                         |         |
| Integrity check info                               |                                                                                                                                                                                                         |         |
| - Message authentication code                      |                                                                                                                                                                                                         |         |
| - RRC Message sequence number                      |                                                                                                                                                                                                         |         |
| Uplink integrity protection activation info        | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.    |         |
| CHOICE mode                                        | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                        |         |
| - CHOICE TDD option                                | Not checked.                                                                                                                                                                                            |         |
|                                                    | TDD                                                                                                                                                                                                     |         |
|                                                    | 1.28 Mcps TDD (no data)                                                                                                                                                                                 |         |
| COUNT-C activation time                            | The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB release procedure. Else, this IE is absent. |         |
| Radio bearer uplink ciphering activation time info | If ciphering is not activated in RADIO BEARER RELEASE message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs.       |         |
| Uplink counter synchronization info                | Not checked                                                                                                                                                                                             |         |

## Contents of RADIO BEARER RELEASE COMPLETE message: AM (1.28 Mcps TDD)

| Information Element        | Value/remark                                                                                       | Version |
|----------------------------|----------------------------------------------------------------------------------------------------|---------|
| Message Type               | Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message. |         |
| RRC transaction identifier |                                                                                                    |         |
| Integrity check info       |                                                                                                    |         |

| Information Element                                | Value/remark                                                                                                                                                                                            | Version |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| - Message authentication code                      | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.    |         |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                        |         |
| Uplink integrity protection activation info        | Not checked.                                                                                                                                                                                            |         |
| CHOICE mode                                        | TDD                                                                                                                                                                                                     |         |
| - CHOICE TDD option                                | 7.68 Mcps TDD (no data)                                                                                                                                                                                 |         |
| - Extended Uplink Timing advance                   | Not Present                                                                                                                                                                                             |         |
| COUNT-C activation time                            | The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB release procedure. Else, this IE is absent. |         |
| Radio bearer uplink ciphering activation time info | If ciphering is not activated in RADIO BEARER RELEASE message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs.       |         |

## Contents of RADIO BEARER RELEASE FAILURE message: AM

| Information Element                                          | Value/remark                                                                                                                                                                                         |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                                 |                                                                                                                                                                                                      |
| RRC transaction identifier                                   | Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RELEASE message.                                                                                          |
| Integrity check info                                         |                                                                                                                                                                                                      |
| - Message authentication code                                | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number                                | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Failure cause                                                | Checked to see if it meets test requirement                                                                                                                                                          |
| Radio bearers for which reconfiguration would have succeeded | Not checked                                                                                                                                                                                          |

## Contents of RRC CONNECTION REQUEST message: TM

| Information Element                         | Value/remark                                                                 | Version |
|---------------------------------------------|------------------------------------------------------------------------------|---------|
| Message Type                                |                                                                              |         |
| Predefined configuration status information | To be checked against requirement if specified                               | Rel-5   |
| Initial UE identity                         |                                                                              |         |
| - CHOICE UE id type                         |                                                                              |         |
| - IMSI (GSM-MAP)                            | Set to the UE's IMSI (GSM-MAP) or TMSI.                                      |         |
| Establishment cause                         | To be checked against requirement if specified                               |         |
| Protocol error indicator                    | FALSE                                                                        |         |
| UE Specific Behaviour Information 1 idle    | This IE will not be checked by default behaviour, but in specific test case. |         |
| Domain indicator                            | To be checked against requirement if specified                               | Rel-6   |
| Call type                                   | To be checked against requirement if specified                               | Rel-6   |
| UE capability indication                    | To be checked against requirement if specified                               | Rel-6   |
| MBMS Selected Services                      | To be checked against requirement if specified                               | Rel-6   |
| UE Mobility State Indicator                 | To be checked against requirement if specified                               | Rel-7   |
| Support for F-DPCH                          | To be checked against requirement if specified                               | Rel-6   |
| Support for Enhanced F-DPCH                 | To be checked against requirement if specified                               | Rel-7   |
| HS-PDSCH in CELL_FACH                       | To be checked against requirement if specified                               | Rel-7   |
| MAC-ehs support                             | To be checked against requirement if specified                               | Rel-7   |
| DPCCH Discontinuous Transmission support    | To be checked against requirement if specified                               | Rel-7   |
| Support of common E-DCH                     | To be checked against requirement if specified                               | Rel-8   |
| Multi cell support                          | To be checked against requirement if specified                               | Rel-8   |
| Dual cell MIMO support                      | To be checked against requirement if specified                               | Rel-9   |
| More than two cell support                  | To be checked against requirement if specified                               | Rel-10  |
| Pre-redirection info                        | To be checked against requirement if specified                               | Rel-8   |
| Support of MAC-i/is                         | To be checked against requirement if specified                               | Rel-8   |
| Support of SPS operation                    | To be checked against requirement if specified                               | Rel-8   |

|                                               |                                                |        |
|-----------------------------------------------|------------------------------------------------|--------|
| Support for CS Voice over HSPA                | To be checked against requirement if specified | Rel-8  |
| System Information Container Stored Indicator | To be checked against requirement if specified | Rel-9  |
| Support of the first Frequency Band           | To be checked against requirement if specified | Rel-10 |
| Support of the second Frequency Band          | To be checked against requirement if specified | Rel-10 |
| Measured results on RACH                      | To be checked against requirement if specified |        |
| Access stratum release indicator              | To be checked against requirement if specified | Rel-4  |

## Contents of RRC CONNECTION REJECT message: UM

| Information Element        | Value/remark                                                                                |
|----------------------------|---------------------------------------------------------------------------------------------|
| Message Type               |                                                                                             |
| RRC transaction identifier | Arbitrarily selects an integer between 0 and 3                                              |
| Initial UE identity        | Select the same type as in the IE "Initial UE Identity" in RRC CONNECTION REQUEST" message. |
| Rejection cause            | Unspecified                                                                                 |
| Wait Time                  | 0                                                                                           |
| Redirection info           | Not Present                                                                                 |

## Contents of RRC CONNECTION RELEASE message: UM

| Information Element           | Value/remark                                                                                                                                                       | Version    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Message Type                  |                                                                                                                                                                    |            |
| U-RNTI                        | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent.<br>0000 0000 0001B                    | R99, Rel-4 |
| - SRNC identity               |                                                                                                                                                                    |            |
| - S-RNTI                      | 0000 0000 0000 0000 0001B                                                                                                                                          |            |
| CHOICE identity type          | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent.                                       | Rel-5      |
| - U-RNTI                      |                                                                                                                                                                    |            |
| - SRNC identity               | 0000 0000 0001B                                                                                                                                                    |            |
| - S-RNTI                      | 0000 0000 0000 0000 0001B                                                                                                                                          |            |
| - Group identity              | [FFS]                                                                                                                                                              |            |
| - Group release information   | [FFS]                                                                                                                                                              |            |
| RRC transaction identifier    | Arbitrarily selects an integer between 0 and 3                                                                                                                     |            |
| Integrity check info          | This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted.                                                   |            |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |            |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter.                                                                                                       |            |
| N308                          | 2 (for CELL_DCH state). Not Present (for UE in other connected mode states).                                                                                       |            |
| Release cause                 | Normal event                                                                                                                                                       |            |
| UE Mobility State Indicator   | Not Present                                                                                                                                                        | Rel-7      |
| Extended Wait Time            | Not Present                                                                                                                                                        | Rel-10     |
| Rplmn information             | Not Present                                                                                                                                                        |            |
| Redirection info              | Not Present                                                                                                                                                        | Rel-6      |

## Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

| Information Element           | Semantics description                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  |                                                                                                                                                                         |
| RRC transaction identifier    | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION RELEASE message.                             |
| Integrity check info          |                                                                                                                                                                         |
| - Message authentication code | Checked to see if it's identical to the value of XMAC-I calculated by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC Message sequence number | Checked to see if it is present. This number is used by the SS to compute the XMAC-I                                                                                    |

Error indication

Not checked

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_DCH) (3.84 Mcps TDD option)

| Information Element                                  | Value/remark                                                                                            | Version | Index    |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                                         |                                                                                                         |         | RCS3-001 |
| Initial UE identity                                  | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message |         | RCS3-002 |
| RRC transaction identifier                           | 0                                                                                                       |         | RCS3-003 |
| Activation time                                      | Not Present(Now)                                                                                        |         | RCS3-004 |
| New U-RNTI                                           |                                                                                                         |         | RCS3-005 |
| - SRNC identity                                      | 0000 0000 0001B                                                                                         |         | RCS3-006 |
| - S-RNTI                                             | 0000 0000 0000 0000 0001B                                                                               |         | RCS3-007 |
| New C-RNTI                                           | Not Present                                                                                             |         | RCS3-008 |
| RRC State Indicator                                  | CELL_DCH                                                                                                |         | RCS3-009 |
| UTRAN DRX cycle length coefficient                   | 9                                                                                                       |         | RCS3-010 |
| Capability update requirement                        |                                                                                                         |         | RCS3-011 |
| - UE radio access FDD capability                     | FALSE                                                                                                   |         | RCS3-012 |
| update requirement                                   |                                                                                                         |         |          |
| - UE radio access TDD capability                     | TRUE                                                                                                    |         | RCS3-013 |
| update requirement                                   |                                                                                                         |         |          |
| - System specific capability update requirement list | GSM                                                                                                     |         | RCS3-014 |
| CHOICE <i>specification mode</i>                     | Complete specification                                                                                  | Rel-5   | RCS3-015 |
| - Complete specification                             |                                                                                                         | Rel-5   | RCS3-016 |
| - Signalling RB information to setup                 | (UM DCCH for RRC)                                                                                       |         | RCS3-017 |
| - RB identity                                        | Not Present                                                                                             |         | RCS3-018 |
| - CHOICE RLC info type                               |                                                                                                         |         | RCS3-019 |
| - RLC info                                           |                                                                                                         |         | RCS3-020 |
| - CHOICE Uplink RLC mode                             | UM RLC                                                                                                  |         | RCS3-021 |
| - Transmission RLC discard                           | Not Present                                                                                             |         | RCS3-022 |
|                                                      |                                                                                                         |         | RCS3-023 |
|                                                      |                                                                                                         |         | RCS3-024 |
| - CHOICE Downlink RLC mode                           | UM RLC                                                                                                  |         | RCS3-025 |
| - RB mapping info                                    |                                                                                                         |         | RCS3-026 |
| - Information for each multiplexing option           | 2 RBMuxOptions                                                                                          |         | RCS3-027 |
| - RLC logical channel mapping indicator              | Not Present                                                                                             |         | RCS3-028 |
| - Number of RLC logical channels                     | 1                                                                                                       |         | RCS3-029 |
| - Uplink transport channel type                      | DCH                                                                                                     |         | RCS3-030 |
| - UL Transport channel identity                      | 5                                                                                                       |         | RCS3-031 |
| - Logical channel identity                           | 1                                                                                                       |         | RCS3-032 |
| - CHOICE RLC size list                               | Configured                                                                                              |         | RCS3-033 |
| - MAC logical channel priority                       | 1                                                                                                       |         | RCS3-034 |
| - Downlink RLC logical channel info                  |                                                                                                         |         | RCS3-035 |
| - Number of RLC logical channels                     | 1                                                                                                       |         | RCS3-036 |
| - Downlink transport channel type                    | DCH                                                                                                     |         | RCS3-037 |
| - DL DCH Transport channel                           | 10                                                                                                      |         | RCS3-038 |
| identity                                             |                                                                                                         |         |          |
| - DL DSCH Transport channel                          | Not Present                                                                                             |         | RCS3-039 |
| identity                                             |                                                                                                         |         |          |
| - Logical channel identity                           | 1                                                                                                       |         | RCS3-040 |
| - RLC logical channel mapping indicator              | Not Present                                                                                             |         | RCS3-041 |
| - Number of RLC logical channels                     | 1                                                                                                       |         | RCS3-042 |
| - Uplink transport channel type                      | RACH                                                                                                    |         | RCS3-043 |
| - UL Transport channel identity                      | Not Present                                                                                             |         | RCS3-044 |
| - Logical channel identity                           | 1                                                                                                       |         | RCS3-045 |
| - CHOICE RLC size list                               | Explicit List                                                                                           |         | RCS3-046 |
| - RLC size index                                     | According to clause 6 for standalone 13.6 kbps signalling radio bearer                                  |         | RCS3-047 |
|                                                      |                                                                                                         |         |          |
| - MAC logical channel priority                       | 1                                                                                                       |         | RCS3-048 |
| - Downlink RLC logical channel info                  |                                                                                                         |         | RCS3-049 |
| - Number of RLC logical channels                     | 1                                                                                                       |         | RCS3-050 |
| - Downlink transport channel type                    | FACH                                                                                                    |         | RCS3-051 |
| - DL DCH Transport channel                           | Not Present                                                                                             |         | RCS3-052 |

| Information Element                  | Value/remark                                                           | Version | Index    |
|--------------------------------------|------------------------------------------------------------------------|---------|----------|
| identity                             |                                                                        |         |          |
| - DL DSCH Transport channel          | Not Present                                                            |         | RCS3-053 |
| identity                             |                                                                        |         |          |
| - Logical channel identity           | 1                                                                      |         | RCS3-054 |
| - Signalling RB information to setup | (AM DCCH for RRC)                                                      |         | RCS3-055 |
| - RB identity                        | Not Present                                                            |         | RCS3-056 |
| - CHOICE RLC info type               |                                                                        |         | RCS3-057 |
| - RLC info                           |                                                                        |         | RCS3-058 |
| - CHOICE Uplink RLC mode             | AM RLC                                                                 |         | RCS3-059 |
| - Transmission RLC discard           |                                                                        |         | RCS3-060 |
| - SDU discard mode                   | No Discard                                                             |         | RCS3-061 |
| - MAX_DAT                            | 15                                                                     |         | RCS3-062 |
|                                      |                                                                        |         | RCS3-063 |
|                                      |                                                                        |         | RCS3-064 |
| - Transmission window size           | 128                                                                    |         | RCS3-065 |
| - Timer_RST                          | 500                                                                    |         | RCS3-066 |
| - Max_RST                            | 1                                                                      |         | RCS3-067 |
| - Polling info                       |                                                                        |         | RCS3-068 |
| - Timer_poll_prohibit                | 200                                                                    |         | RCS3-069 |
| - Timer_poll                         | 200                                                                    |         | RCS3-070 |
| - Poll_PDU                           | Not present                                                            |         | RCS3-071 |
| - Poll_SDU                           | 1                                                                      |         | RCS3-072 |
| - Last transmission PDU poll         | TRUE                                                                   |         | RCS3-073 |
| - Last retransmission PDU poll       | TRUE                                                                   |         | RCS3-074 |
| - Poll_Window                        | 99                                                                     |         | RCS3-075 |
| - Timer_poll_periodic                | Not Present                                                            |         | RCS3-076 |
| - CHOICE Downlink RLC mode           | AM RLC                                                                 |         | RCS3-077 |
| - In-sequence delivery               | TRUE                                                                   |         | RCS3-078 |
| - Receiving window size              | 128                                                                    |         | RCS3-079 |
| - Downlink RLC status info           |                                                                        |         | RCS3-080 |
| - Timer_status_prohibit              | 200                                                                    |         | RCS3-081 |
| - Timer_EPC                          | Not Present                                                            |         | RCS3-082 |
| - Missing PDU indicator              | TRUE                                                                   |         | RCS3-083 |
| - Timer_STATUS_periodic              | Not Present                                                            |         | RCS3-084 |
| - RB mapping info                    |                                                                        |         | RCS3-085 |
| - Information for each multiplexing  | 2 RBMuxOptions                                                         |         | RCS3-086 |
| option                               |                                                                        |         |          |
| - RLC logical channel mapping        | Not Present                                                            |         | RCS3-087 |
| indicator                            |                                                                        |         |          |
| - Number of RLC logical channels     | 1                                                                      |         | RCS3-088 |
| - Uplink transport channel type      | DCH                                                                    |         | RCS3-089 |
| - UL Transport channel identity      | 5                                                                      |         | RCS3-090 |
| - Logical channel identity           | 2                                                                      |         | RCS3-091 |
| - CHOICE RLC size list               | Configure                                                              |         | RCS3-092 |
| - MAC logical channel priority       | 2                                                                      |         | RCS3-093 |
| - Downlink RLC logical channel info  |                                                                        |         | RCS3-094 |
| - Number of RLC logical channels     | 1                                                                      |         | RCS3-095 |
| - Downlink transport channel type    | DCH                                                                    |         | RCS3-096 |
| - DL DCH Transport channel           | 10                                                                     |         | RCS3-097 |
| identity                             |                                                                        |         |          |
| - DL DSCH Transport channel          | Not Present                                                            |         | RCS3-098 |
| identity                             |                                                                        |         |          |
| - Logical channel identity           | 2                                                                      |         | RCS3-099 |
| - RLC logical channel mapping        | Not Present                                                            |         | RCS3-100 |
| indicator                            |                                                                        |         |          |
| - Number of RLC logical channels     | 1                                                                      |         | RCS3-101 |
| - Uplink transport channel type      | RACH                                                                   |         | RCS3-102 |
| - UL Transport channel identity      | Not Present                                                            |         | RCS3-103 |
| - Logical channel identity           | 2                                                                      |         | RCS3-104 |
| - CHOICE RLC size list               | Explicit List                                                          |         | RCS3-105 |
| - RLC size index                     | According to clause 6 for standalone 13.6 kbps signalling radio bearer |         | RCS3-106 |
|                                      |                                                                        |         |          |
| - MAC logical channel priority       | 2                                                                      |         | RCS3-107 |
| - Downlink RLC logical channel info  |                                                                        |         | RCS3-108 |
| - Number of RLC logical channels     | 1                                                                      |         | RCS3-109 |
| - Downlink transport channel type    | FACH                                                                   |         | RCS3-110 |
| - DL DCH Transport channel           | Not Present                                                            |         | RCS3-111 |

| Information Element                 | Value/remark                                                           | Version | Index    |
|-------------------------------------|------------------------------------------------------------------------|---------|----------|
| identity                            |                                                                        |         |          |
| - DL DSCH Transport channel         | Not Present                                                            |         | RCS3-112 |
| identity                            |                                                                        |         |          |
| - Logical channel identity          | 2                                                                      |         | RCS3-113 |
| Signalling RB information to setup  | (AM DCCH for NAS_DT High priority)                                     |         | RCS3-114 |
| - RB identity                       | Not Present                                                            |         | RCS3-115 |
| - CHOICE RLC info type              |                                                                        |         | RCS3-116 |
| - RLC info                          |                                                                        |         | RCS3-117 |
| - CHOICE Uplink RLC mode            | AM RLC                                                                 |         | RCS3-118 |
| - Transmission RLC discard          |                                                                        |         | RCS3-119 |
| - SDU discard mode                  | No Discard                                                             |         | RCS3-120 |
| - MAX_DAT                           | 15                                                                     |         | RCS3-121 |
|                                     |                                                                        |         | RCS3-122 |
|                                     |                                                                        |         | RCS3-123 |
| - Transmission window size          | 128                                                                    |         | RCS3-124 |
| - Timer_RST                         | 500                                                                    |         | RCS3-125 |
| - Max_RST                           | 1                                                                      |         | RCS3-126 |
| - Polling info                      |                                                                        |         | RCS3-127 |
| - Timer_poll_prohibit               | 200                                                                    |         | RCS3-128 |
| - Timer_poll                        | 200                                                                    |         | RCS3-129 |
| - Poll_PDU                          | Not present                                                            |         | RCS3-130 |
| - Poll_SDU                          | 1                                                                      |         | RCS3-131 |
| - Last transmission PDU poll        | TRUE                                                                   |         | RCS3-132 |
| - Last retransmission PDU poll      | TRUE                                                                   |         | RCS3-133 |
| - Poll_Windows                      | 99                                                                     |         | RCS3-134 |
| - Timer_poll_periodic               | Not Present                                                            |         | RCS3-135 |
| - CHOICE Downlink RLC mode          | AM RLC                                                                 |         | RCS3-136 |
| - In-sequence delivery              | TRUE                                                                   |         | RCS3-137 |
| - Receiving window size             | 128                                                                    |         | RCS3-138 |
| - Downlink RLC status info          |                                                                        |         | RCS3-139 |
| - Timer_status_prohibit             | 200                                                                    |         | RCS3-140 |
| - Timer_EPC                         | Not Present                                                            |         | RCS3-141 |
| - Missing PDU indicator             | TRUE                                                                   |         | RCS3-142 |
| - Timer_STATUS_periodic             | Not Present                                                            |         | RCS3-143 |
| - RB mapping info                   |                                                                        |         | RCS3-144 |
| - Information for each multiplexing | 2 RBMuxOptions                                                         |         | RCS3-145 |
| option                              |                                                                        |         |          |
| - RLC logical channel mapping       | Not Present                                                            |         | RCS3-146 |
| indicator                           |                                                                        |         |          |
| - Number of RLC logical channels    | 1                                                                      |         | RCS3-147 |
| - Uplink transport channel type     | DCH                                                                    |         | RCS3-148 |
| - UL Transport channel identity     | 5                                                                      |         | RCS3-149 |
| - Logical channel identity          | 3                                                                      |         | RCS3-150 |
| - CHOICE RLC size list              | Configured                                                             |         | RCS3-151 |
| - MAC logical channel priority      | 3                                                                      |         | RCS3-152 |
| - Downlink RLC logical channel info |                                                                        |         | RCS3-153 |
| - Number of RLC logical channels    | 1                                                                      |         | RCS3-154 |
| - Downlink transport channel type   | DCH                                                                    |         | RCS3-155 |
| - DL DCH Transport channel          | 10                                                                     |         | RCS3-156 |
| identity                            |                                                                        |         |          |
| - DL DSCH Transport channel         | Not Present                                                            |         | RCS3-157 |
| identity                            |                                                                        |         |          |
| - Logical channel identity          | 3                                                                      |         | RCS3-158 |
| - RLC logical channel mapping       | Not Present                                                            |         | RCS3-159 |
| indicator                           |                                                                        |         |          |
| - Number of RLC logical channels    | 1                                                                      |         | RCS3-160 |
| - Uplink transport channel type     | RACH                                                                   |         | RCS3-161 |
| - UL Transport channel identity     | Not Present                                                            |         | RCS3-162 |
| - Logical channel identity          | 3                                                                      |         | RCS3-163 |
| - CHOICE RLC size list              | Explicit List                                                          |         | RCS3-164 |
| - RLC size index                    | According to clause 6 for standalone 13.6 kbps signalling radio bearer |         | RCS3-165 |
|                                     |                                                                        |         |          |
| - MAC logical channel priority      | 3                                                                      |         | RCS3-166 |
| - Downlink RLC logical channel info |                                                                        |         | RCS3-167 |
| - Number of RLC logical channels    | 1                                                                      |         | RCS3-168 |
| - Downlink transport channel type   | FACH                                                                   |         | RCS3-169 |
| - DL DCH Transport channel          | Not Present                                                            |         | RCS3-170 |

| Information Element                  | Value/remark                                                           | Version | Index    |
|--------------------------------------|------------------------------------------------------------------------|---------|----------|
| identity                             |                                                                        |         |          |
| - DL DSCH Transport channel          | Not Present                                                            |         | RCS3-171 |
| identity                             |                                                                        |         |          |
| - Logical channel identity           | 3                                                                      |         | RCS3-172 |
| - Signalling RB information to setup | (AM DCCH for NAS_DT Low priority)                                      |         | RCS3-173 |
| - RB identity                        | Not Present                                                            |         | RCS3-174 |
| - CHOICE RLC info type               |                                                                        |         | RCS3-175 |
| - RLC info                           |                                                                        |         | RCS3-176 |
| - CHOICE Uplink RLC mode             | AM RLC                                                                 |         | RCS3-177 |
| - Transmission RLC discard           |                                                                        |         | RCS3-178 |
| - SDU discard mode                   | No discard                                                             |         | RCS3-179 |
| - MAX_DAT                            | 15                                                                     |         | RCS3-180 |
|                                      |                                                                        |         | RCS3-181 |
|                                      |                                                                        |         | RCS3-182 |
| - Transmission window size           | 128                                                                    |         | RCS3-183 |
| - Timer_RST                          | 500                                                                    |         | RCS3-184 |
| - Max_RST                            | 1                                                                      |         | RCS3-185 |
| - Polling info                       |                                                                        |         | RCS3-186 |
| - Timer_poll_prohibit                | 200                                                                    |         | RCS3-187 |
| - Timer_poll                         | 200                                                                    |         | RCS3-188 |
| - Poll_PDU                           | Not present                                                            |         | RCS3-189 |
| - Poll_SDU                           | 1                                                                      |         | RCS3-190 |
| - Last transmission PDU poll         | TRUE                                                                   |         | RCS3-191 |
| - Last retransmission PDU poll       | TRUE                                                                   |         | RCS3-192 |
| - Poll_Windows                       | 99                                                                     |         | RCS3-193 |
| - Timer_poll_periodic                | Not Present                                                            |         | RCS3-194 |
| - CHOICE Downlink RLC mode           | AM RLC                                                                 |         | RCS3-195 |
| - In-sequence delivery               | TRUE                                                                   |         | RCS3-196 |
| - Receiving window size              | 128                                                                    |         | RCS3-197 |
| - Downlink RLC status info           |                                                                        |         | RCS3-198 |
| - Timer_status_prohibit              | 200                                                                    |         | RCS3-199 |
| - Timer_EPC                          | Not Present                                                            |         | RCS3-200 |
| - Missing PDU indicator              | TRUE                                                                   |         | RCS3-201 |
| - Timer_STATUS_periodic              | Not Present                                                            |         | RCS3-202 |
| - RB mapping info                    |                                                                        |         | RCS3-203 |
| - Information for each multiplexing  | 2 RBMuxOptions                                                         |         | RCS3-204 |
| option                               |                                                                        |         |          |
| - RLC logical channel mapping        | Not Present                                                            |         | RCS3-205 |
| indicator                            |                                                                        |         |          |
| - Number of RLC logical channels     | 1                                                                      |         | RCS3-206 |
| - Uplink transport channel type      | DCH                                                                    |         | RCS3-207 |
| - UL Transport channel identity      | 5                                                                      |         | RCS3-208 |
| - Logical channel identity           | 4                                                                      |         | RCS3-209 |
| - CHOICE RLC size list               | Configured                                                             |         | RCS3-210 |
| - MAC logical channel priority       | 4                                                                      |         | RCS3-211 |
| - Downlink RLC logical channel info  |                                                                        |         | RCS3-212 |
| - Number of RLC logical channels     | 1                                                                      |         | RCS3-213 |
| - Downlink transport channel type    | DCH                                                                    |         | RCS3-214 |
| - DL DCH Transport channel           | 10                                                                     |         | RCS3-215 |
| identity                             |                                                                        |         |          |
| - DL DSCH Transport channel          | Not Present                                                            |         | RCS3-216 |
| identity                             |                                                                        |         |          |
| - Logical channel identity           | 4                                                                      |         | RCS3-217 |
| - RLC logical channel mapping        | Not Present                                                            |         | RCS3-218 |
| indicator                            |                                                                        |         |          |
| - Number of RLC logical channels     | 1                                                                      |         | RCS3-219 |
| - Uplink transport channel type      | RACH                                                                   |         | RCS3-220 |
| - UL Transport channel identity      | Not Present                                                            |         | RCS3-221 |
| - Logical channel identity           | 4                                                                      |         | RCS3-222 |
| - CHOICE RLC size list               | Explicit List                                                          |         | RCS3-223 |
| - RLC size index                     | According to clause 6 for standalone 13.6 kbps signalling radio bearer |         | RCS3-224 |
|                                      |                                                                        |         |          |
| - MAC logical channel priority       | 4                                                                      |         | RCS3-225 |
| - Downlink RLC logical channel info  |                                                                        |         | RCS3-226 |
| - Number of RLC logical channels     | 1                                                                      |         | RCS3-227 |
| - Downlink transport channel type    | FACH                                                                   |         | RCS3-228 |
| - DL DCH Transport channel           | Not Present                                                            |         | RCS3-229 |

| Information Element                                               | Value/remark                                                                                                         | Version | Index    |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------|----------|
| identity                                                          |                                                                                                                      |         |          |
| - DL DSCH Transport channel                                       | Not Present                                                                                                          |         | RCS3-230 |
| identity                                                          |                                                                                                                      |         |          |
| - Logical channel identity                                        | 4                                                                                                                    |         | RCS3-231 |
| UL Transport channel information for all transport channels       |                                                                                                                      |         | RCS3-232 |
| - PRACH TFCS                                                      | Not Present                                                                                                          |         | RCS3-233 |
| - CHOICE mode                                                     | TDD                                                                                                                  |         | RCS3-234 |
| - Individual UL CCTrCH                                            |                                                                                                                      |         | RCS3-235 |
| information                                                       |                                                                                                                      |         |          |
| - UL TFCS ID                                                      | (This IE is repeated for TFC number.)                                                                                |         | RCS3-236 |
| - UL TFCS                                                         |                                                                                                                      |         | RCS3-237 |
| - TFC subset                                                      | Default value is the complete existing set of transport format combinations                                          |         | RCS3-238 |
| - Allowed Transport Format                                        | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.)                                                 |         | RCS3-239 |
| combination                                                       |                                                                                                                      |         |          |
| - PRACH TFCS                                                      | (This IE is repeated for TFC number.)                                                                                |         | RCS3-240 |
| - CHOICE TFCI signalling                                          | Normal                                                                                                               |         | RCS3-241 |
| - TFCI Field 1 information                                        |                                                                                                                      |         | RCS3-242 |
| - TFCS complete                                                   |                                                                                                                      |         | RCS3-243 |
| reconfigure information                                           |                                                                                                                      |         |          |
| - CHOICE TFCS Size                                                | Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to clause 6 Parameter Set |         | RCS3-244 |
| - CTFC information                                                | Not Present                                                                                                          |         | RCS3-245 |
| - CHOICE mode                                                     | TDD                                                                                                                  |         | RCS3-246 |
| - Individual UL CCTrCH                                            | Not Present                                                                                                          |         | RCS3-247 |
| information                                                       |                                                                                                                      |         |          |
| Deleted TrCH information list                                     | Not Present                                                                                                          |         | RCS3-248 |
| Added or Reconfigured UL TrCH information                         |                                                                                                                      |         | RCS3-249 |
| - Uplink transport channel type                                   | DCH                                                                                                                  |         | RCS3-250 |
| - UL Transport channel identity                                   | 5                                                                                                                    |         | RCS3-251 |
| - TFS                                                             |                                                                                                                      |         | RCS3-252 |
| - CHOICE Transport channel type                                   | Dedicated transport channels                                                                                         |         | RCS3-253 |
| - Dynamic Transport format                                        |                                                                                                                      |         | RCS3-254 |
| information                                                       |                                                                                                                      |         |          |
| - RLC size                                                        | According to clause 6 for standalone 13.6 kbps signalling radio bearer                                               |         | RCS3-255 |
| - Number of TBs and TTI lists                                     | (This IE is repeated for TFI number)                                                                                 |         | RCS3-256 |
| - CHOICE mode                                                     | TDD                                                                                                                  |         | RCS3-257 |
| - Transmission Time Interval                                      | According to clause 6 for standalone 13.6 kbps signalling radio bearer                                               |         | RCS3-258 |
| - CHOICE Logical channel list                                     | All                                                                                                                  |         | RCS3-259 |
| - Semi-static Transport Format                                    |                                                                                                                      |         | RCS3-260 |
| information                                                       |                                                                                                                      |         |          |
| DL Transport channel information common for all transport channel |                                                                                                                      |         | RCS3-261 |
| - SCCPCH TFCS                                                     | Not Present                                                                                                          |         | RCS3-262 |
| - CHOICE mode                                                     | TDD                                                                                                                  |         | RCS3-263 |
| - Individual DL CCTrCH information                                |                                                                                                                      |         | RCS3-264 |
| - DL TFCS Identity                                                |                                                                                                                      |         | RCS3-265 |
| - TFCS ID                                                         | 1                                                                                                                    |         | RCS3-266 |
| - Shared Channel Indicator                                        |                                                                                                                      |         | RCS3-267 |
| - CHOICE DL parameters                                            | Same as UL                                                                                                           |         | RCS3-268 |
| Added or Reconfigured TrCH information list                       |                                                                                                                      |         | RCS3-269 |
| - Added or Reconfigured DL TrCH information                       |                                                                                                                      |         | RCS3-270 |
| - Downlink transport channel type                                 | DCH                                                                                                                  |         | RCS3-271 |
| - DL Transport channel identity                                   | 10                                                                                                                   |         | RCS3-272 |
| - CHOICE DL parameters                                            | Same as UL                                                                                                           |         | RCS3-273 |
| - Uplink transport channel type                                   | DCH                                                                                                                  |         | RCS3-274 |
| - UL Transport channel identity                                   | 5                                                                                                                    |         | RCS3-275 |
| - DCH quality target                                              |                                                                                                                      |         | RCS3-276 |
| - BLER Quality value                                              | -63 (-6.3)                                                                                                           |         | RCS3-277 |
| Frequency info                                                    | Not Present                                                                                                          |         | RCS3-278 |



| Information Element                             | Value/remark                                                            | Version            | Index    |
|-------------------------------------------------|-------------------------------------------------------------------------|--------------------|----------|
| Maximum allowed UL TX power                     | Not Present                                                             |                    | RCS3-279 |
| CHOICE channel requirement                      | Uplink DPCH info                                                        |                    | RCS3-280 |
| - Uplink DPCH power control info                |                                                                         |                    | RCS3-281 |
| - CHOICE mode                                   | TDD                                                                     |                    | RCS3-282 |
| - CHOICE <i>TDD option</i>                      | 3.84 Mcps                                                               |                    | RCS3-283 |
| - UL target SIR                                 | Reference to clause 6.10 Parameter set                                  |                    | RCS3-284 |
| - CHOICE mode                                   | TDD                                                                     |                    | RCS3-285 |
| - CHOICE <i>UL OL PC info</i>                   | Individually signalled                                                  |                    | RCS3-286 |
| - CHOICE <i>TDD option</i>                      | 3.84 Mcps                                                               |                    | RCS3-287 |
| - Individual timeslot interference              | Not Present                                                             |                    | RCS3-288 |
| info                                            |                                                                         |                    |          |
| - Individual timeslot interference              |                                                                         |                    | RCS3-289 |
| - DPCH Constant Value                           |                                                                         |                    | RCS3-290 |
| - Primary CCPCH Tx Power                        | Not Present                                                             |                    | RCS3-291 |
| - Time info                                     |                                                                         |                    | RCS3-292 |
| - Activation time                               | (256+CFN-(CFN MOD 8 + 8))MOD 256                                        |                    | RCS3-293 |
| - Duration                                      | Infinite                                                                |                    | RCS3-294 |
| - Common timeslot info                          |                                                                         |                    | RCS3-295 |
| - 2 <sup>nd</sup> interleaving mode             | Reference to clause 6.10 Parameter Set                                  |                    | RCS3-296 |
| - TFCI coding                                   | Reference to clause 6.10 Parameter Set                                  |                    | RCS3-297 |
| - Puncturing Limit                              | Reference to clause 6.10 Parameter Set                                  |                    | RCS3-298 |
| - Repetition Period                             | Reference to clause 6.10 Parameter Set                                  |                    | RCS3-299 |
| - Repetition Length                             | Reference to clause 6.10 Parameter Set                                  |                    | RCS3-300 |
| - Uplink DPCH timeslots and                     | Default is to use the old timeslots and codes                           |                    | RCS3-301 |
| codes                                           |                                                                         |                    |          |
| - CPCH SET Info                                 | (no data)                                                               | R99 and Rel-4 only | RCS3-302 |
| Downlink information common for all radio links |                                                                         |                    | RCS3-303 |
| - Downlink DPCH info common for all RL          |                                                                         |                    | RCS3-304 |
| - Timing indicator                              | Maintain                                                                |                    | RCS3-305 |
| - CFN-targetSFN frame offset                    | Not Present                                                             |                    | RCS3-306 |
| - Downlink DPCH power control information       |                                                                         |                    | RCS3-307 |
| - DPC mode                                      | 0 (single)                                                              |                    | RCS3-308 |
| - CHOICE mode                                   | TDD                                                                     |                    | RCS3-309 |
| - CHOICE TDD option                             | 3.84 Mcps (no data)                                                     |                    | RCS3-310 |
| - Default DPCH Offset Value                     | Not Present                                                             |                    | RCS3-311 |
| Downlink information for each radio link list   |                                                                         |                    | RCS3-312 |
| - Downlink information for each radio link      |                                                                         |                    | RCS3-313 |
| - Choice mode                                   | TDD                                                                     |                    | RCS3-314 |
| - Primary CCPCH info                            |                                                                         |                    | RCS3-315 |
| - CHOICE <i>SyncCase</i>                        | Sync Case 1                                                             |                    | RCS3-316 |
| - Timeslot                                      | PCCPCH timeslot                                                         |                    | RCS3-317 |
| - Cell parameters ID                            | 0                                                                       |                    | RCS3-318 |
| - SCTD indicator                                |                                                                         |                    | RCS3-319 |
| - Downlink DPCH info for each RL                |                                                                         |                    | RCS3-320 |
| - CHOICE mode                                   | TDD                                                                     |                    | RCS3-321 |
| - DL CCTrCH List                                |                                                                         |                    | RCS3-322 |
| - TFCS ID                                       | 1                                                                       |                    | RCS3-323 |
| - Time info                                     |                                                                         |                    | RCS3-324 |
| - Activation time                               | (256+CFN-(CFN mod 8 + 8))mod 256                                        |                    | RCS3-325 |
| - Duration                                      | infinite                                                                |                    | RCS3-326 |
| - Common timeslot info                          |                                                                         |                    | RCS3-327 |
| - 2 <sup>nd</sup> interleaving mode             | Reference to the present document                                       |                    | RCS3-328 |
| - TFCI coding                                   | TRUE                                                                    |                    | RCS3-329 |
| - Puncturing limit                              | Reference to clause 6 Parameter set                                     |                    | RCS3-330 |
| - Repetition period                             | 1                                                                       |                    | RCS3-331 |
| - Repetition length                             | Empty                                                                   |                    | RCS3-332 |
| - Downlink DPCH timeslots and codes             |                                                                         |                    | RCS3-333 |
| - CHOICE <i>more timeslots</i>                  |                                                                         |                    | RCS3-334 |
| - CHOICE TDD option                             | 3.84 Mcps                                                               |                    | RCS3-335 |
| - Timeslot number                               | The number of a downlink timeslot that has unassigned codes in a frame. |                    | RCS3-336 |
| - Individual timeslot info                      |                                                                         |                    | RCS3-337 |

| Information Element              | Value/remark                                                      | Version                                                                                                                                                          | Index    |
|----------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| burst type                       | - TFCI existence<br>- Midamble shift and                          | TRUE                                                                                                                                                             | RCS3-338 |
|                                  |                                                                   |                                                                                                                                                                  | RCS3-339 |
| Allocation Mode                  | - CHOICE TDD option<br>-CHOICE Burst Type<br>-Type 1<br>-Midamble | 3.84 Mcps                                                                                                                                                        | RCS3-340 |
|                                  |                                                                   | Default                                                                                                                                                          | RCS3-341 |
| configuration burst type 1 and 3 | - Midamble                                                        | As defined in 3GPP TS 25.221 [28]                                                                                                                                | RCS3-342 |
|                                  |                                                                   |                                                                                                                                                                  | RCS3-343 |
| channelisation codes             | - First timeslot                                                  |                                                                                                                                                                  | RCS3-344 |
|                                  |                                                                   |                                                                                                                                                                  | RCS3-345 |
| - First channelisation code      |                                                                   | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.                                                 | RCS3-346 |
|                                  |                                                                   |                                                                                                                                                                  | RCS3-347 |
| - Last channelisation code       |                                                                   | (j/SF) where j is the highest numbered code that is being assigned in the slot.                                                                                  | RCS3-348 |
|                                  |                                                                   |                                                                                                                                                                  | RCS3-349 |
| - CHOICE more timeslots          |                                                                   | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. | RCS3-350 |
|                                  |                                                                   |                                                                                                                                                                  | RCS3-350 |
| - UL CCTrCH TPC List             |                                                                   | Not Present                                                                                                                                                      | RCS3-349 |
|                                  |                                                                   |                                                                                                                                                                  | RCS3-350 |
| -SCCPCH information for FACH     | Not Present                                                       | R99 and Rel-4 only                                                                                                                                               |          |

## Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_DCH) (1.28 Mcps TDD option)

| Information Element                       | Condition          | Value/remark                                                                                            | Version | Index     |
|-------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------|---------|-----------|
| Message Type                              | A1,A2, A3 , A4, A5 |                                                                                                         |         | RCS1-001  |
| Initial UE identity                       |                    | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message |         | RCS1-002  |
| RRC transaction identifier                |                    | 0                                                                                                       |         | RCS1-003  |
| Activation time                           |                    | Not Present(Now)                                                                                        |         | RCS1-004  |
| New U-RNTI                                |                    |                                                                                                         |         | RCS1-005  |
| - SRNC identity                           |                    | 0000 0000 0001B                                                                                         |         | RCS1-006  |
| - S-RNTI                                  |                    | 0000 0000 0000 0000 0001B                                                                               |         | RCS1-007  |
| New C-RNTI                                | A1, A2, A3         | Not Present                                                                                             |         | RCS1-008  |
| New C-RNTI                                | A5                 | '1010 1010 1010 1010'                                                                                   | Rel-8   | RCS1-009  |
| New H-RNTI                                | A1                 | Not present                                                                                             | Rel-6   | RCS1-010  |
| New H-RNTI                                | A2                 |                                                                                                         | Rel-6   | RCS1-011  |
|                                           | A3                 |                                                                                                         | Rel-7   | RCS1-012  |
|                                           | A4, A5             |                                                                                                         | Rel-8   | RCS1-013  |
| New E-RNTI                                | A1                 | Not present                                                                                             | Rel-6   | RCS1-014  |
| New E-RNTI                                | A2, A3             |                                                                                                         | Rel-7   | RCS1-015  |
| RRC State Indicator                       |                    | CELL_DCH                                                                                                |         | RCS1-016  |
| RRC State Indicator                       | A5                 | CELL_FACH                                                                                               |         | RCS1-017  |
| UTRAN DRX cycle length coefficient        |                    | 9, Integer(3...9)                                                                                       |         | RCS1-018  |
| Capability update requirement             |                    |                                                                                                         |         | RCS1-019  |
| - UE radio access FDD capability          |                    | FALSE                                                                                                   |         | RCS1-020  |
| update requirement                        |                    |                                                                                                         |         |           |
| - UE radio access 3.84 Mcps TDD           |                    | FALSE                                                                                                   |         | RCS1-021  |
| capability update requirement             |                    |                                                                                                         |         |           |
| - UE radio access 1.28 Mcps TDD           |                    | TRUE                                                                                                    |         | RCS1-022  |
| capability update requirement             |                    |                                                                                                         |         |           |
| - System specific capability update       |                    | Not Present                                                                                             |         | RCS1-023  |
| requirement list                          |                    |                                                                                                         |         |           |
| - System specific capability update       | UTRAN to E-UTRA    | GSM, EUTRA                                                                                              | Rel-8   | RCS1-023a |
| requirement list                          |                    |                                                                                                         |         |           |
| RNC support for change of UE capability   |                    | FALSE                                                                                                   | Rel-8   | RCS1-023b |
| Default configuration for CELL_FACH       |                    | Not Present                                                                                             | Rel-8   | RCS1-023c |
| CHOICE <i>specification mode</i>          |                    | Complete specification                                                                                  | Rel-5   | RCS1-024  |
| - Complete specification                  |                    |                                                                                                         | Rel-5   | RCS1-025  |
| - Signalling RB information to setup list |                    |                                                                                                         |         | RCS1-026  |
| - Signalling RB information to setup      | A1                 | (UM DCCH for RRC)                                                                                       |         | RCS1-027  |
| - RB identity                             |                    | 1                                                                                                       |         | RCS1-028  |
| - CHOICE RLC info type                    |                    | RLC info                                                                                                |         | RCS1-029  |

| Information Element                        | Condition | Value/remark                                                                   | Version | Index    |
|--------------------------------------------|-----------|--------------------------------------------------------------------------------|---------|----------|
| - CHOICE Uplink RLC mode                   | A2        | UM RLC                                                                         |         | RCS1-030 |
| - Transmission RLC discard                 |           | Not Present                                                                    |         | RCS1-031 |
| - CHOICE Downlink RLC mode                 |           | UM RLC                                                                         |         | RCS1-032 |
| - RB mapping info                          |           |                                                                                |         | RCS1-033 |
| - Information for each multiplexing option |           | 2 RBMuxOptions                                                                 |         | RCS1-034 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                    |         | RCS1-035 |
| - Number of RLC logical channels           |           | 1                                                                              |         | RCS1-036 |
| - Uplink transport channel type            |           | DCH                                                                            |         | RCS1-037 |
| - UL Transport channel identity            |           | 5                                                                              |         | RCS1-038 |
| - Logical channel identity                 |           | 1                                                                              |         | RCS1-039 |
| - CHOICE RLC size list                     |           | Configured                                                                     |         | RCS1-040 |
| - MAC logical channel priority             |           | 1                                                                              |         | RCS1-041 |
| - Downlink RLC logical channel info        |           |                                                                                |         | RCS1-042 |
| - Number of RLC logical channels           |           | 1                                                                              |         | RCS1-043 |
| - Downlink transport channel type          |           | DCH                                                                            |         | RCS1-044 |
| - DL DCH Transport channel identity        |           | 10                                                                             |         | RCS1-045 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                    |         | RCS1-046 |
| - DL HS-DSCH MAC-d flow identity           |           | Not Present                                                                    |         | RCS1-047 |
| - Logical channel identity                 |           | 1                                                                              |         | RCS1-048 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                    |         | RCS1-049 |
| - Number of RLC logical channels           |           | 1                                                                              |         | RCS1-050 |
| - Uplink transport channel type            |           | RACH                                                                           |         | RCS1-051 |
| - UL Transport channel identity            |           | Not Present                                                                    |         | RCS1-052 |
| - Logical channel identity                 |           | 1                                                                              |         | RCS1-053 |
| - CHOICE RLC size list                     |           | Explicit List                                                                  |         | RCS1-054 |
| - RLC size index                           |           | According to clause 6.11.5.4.1.2 (standalone 3.4 kbps signalling radio bearer) |         | RCS1-055 |
| - MAC logical channel priority             |           | 1                                                                              |         | RCS1-056 |
| - Downlink RLC logical channel info        |           |                                                                                |         | RCS1-057 |
| - Number of RLC logical channels           |           | 1                                                                              |         | RCS1-058 |
| - Downlink transport channel type          |           | FACH                                                                           |         | RCS1-059 |
| - DL DCH Transport channel identity        |           | Not Present                                                                    |         | RCS1-060 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                    |         | RCS1-061 |
| - DL HS-DSCH MAC-d flow identity           |           | Not Present                                                                    |         | RCS1-062 |
| - Logical channel identity                 |           | 1                                                                              |         | RCS1-063 |
| - Signalling RB information to setup       |           | (UM DCCH for RRC)                                                              |         | RCS1-064 |
| - RB identity                              |           | 1                                                                              |         | RCS1-065 |
| - CHOICE RLC info type                     |           | RLC info                                                                       |         | RCS1-066 |
| - CHOICE Uplink RLC mode                   |           | UM RLC                                                                         |         | RCS1-067 |
| - Transmission RLC discard                 |           | Not Present                                                                    |         | RCS1-068 |
| - CHOICE Downlink RLC mode                 |           | UM RLC                                                                         |         | RCS1-069 |
| - RB mapping info                          |           |                                                                                |         | RCS1-070 |
| - Information for each multiplexing option |           | 1 RBMuxOption                                                                  |         | RCS1-071 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                    |         | RCS1-072 |
| - Number of RLC logical channels           |           | 1                                                                              |         | RCS1-073 |
| - Uplink transport channel type            |           | E-DCH                                                                          |         | RCS1-074 |
| - Logical channel identity                 |           | 1                                                                              |         | RCS1-075 |
| - E-DCH MAC-d flow identity                |           | 1                                                                              |         | RCS1-076 |
| - DDI                                      |           | 1                                                                              |         | RCS1-077 |
| - RLC PDU size list                        |           | 1 RLC PDU size                                                                 |         | RCS1-078 |
| - RLC PDU size                             |           | 144 bits                                                                       |         | RCS1-079 |
| - Include in scheduling info               |           | FALSE                                                                          |         | RCS1-080 |
| - MAC logical channel priority             |           | 1                                                                              |         | RCS1-081 |
| - Downlink RLC logical channel info        |           |                                                                                |         | RCS1-082 |
| - Number of RLC logical channels           |           | 1                                                                              |         | RCS1-083 |

| Information Element                        | Condition | Value/remark      | Version | Index    |
|--------------------------------------------|-----------|-------------------|---------|----------|
| identity                                   |           | HS-DSCH           |         | RCS1-084 |
|                                            |           | Not present       |         | RCS1-085 |
| identity                                   |           | Not Present       |         | RCS1-086 |
|                                            |           |                   |         | RCS1-087 |
| identity                                   |           | 1                 |         | RCS1-088 |
|                                            |           |                   |         | RCS1-089 |
| - Signalling RB information to setup       | A3        | (UM DCCH for RRC) | Rel-7   | RCS1-090 |
|                                            |           |                   |         | RCS1-091 |
| - RB identity                              | A4, A5    | Not present       | Rel-8   | RCS1-092 |
|                                            |           |                   |         | RCS1-093 |
| - CHOICE RLC info type                     |           | UM RLC            |         | RCS1-094 |
|                                            |           |                   |         | RCS1-095 |
| - RLC info                                 |           | Not Present       |         | RCS1-096 |
|                                            |           |                   |         | RCS1-097 |
| - CHOICE Uplink RLC mode                   |           | UM RLC            |         | RCS1-098 |
|                                            |           |                   |         | RCS1-099 |
| - Transmission RLC discard                 |           | 7 bit             |         | RCS1-100 |
|                                            |           |                   |         | RCS1-101 |
| - CHOICE Downlink RLC mode                 |           | FALSE             |         | RCS1-102 |
|                                            |           |                   |         | RCS1-103 |
| - DL UM RLC LI size                        |           | TRUE              |         | RCS1-104 |
|                                            |           |                   |         | RCS1-105 |
| - One sided RLC re-establishment           |           | Not present       |         | RCS1-106 |
|                                            |           |                   |         | RCS1-107 |
| - Alternative E-bit interpretation         |           | 1 RBMuxOption     |         | RCS1-108 |
|                                            |           |                   |         | RCS1-109 |
| - Use special value of HE field            |           | Not Present       |         | RCS1-110 |
|                                            |           |                   |         | RCS1-111 |
| - RB mapping info                          |           | 1                 |         | RCS1-112 |
|                                            |           |                   |         | RCS1-113 |
| - Information for each multiplexing option |           | Not Present       |         | RCS1-114 |
|                                            |           |                   |         | RCS1-115 |
| - RLC logical channel mapping indicator    |           | 1                 |         | RCS1-116 |
|                                            |           |                   |         | RCS1-117 |
| - Number of RLC logical channels           |           | E-DCH             |         | RCS1-118 |
|                                            |           |                   |         | RCS1-119 |
| - Uplink transport channel type            |           | 1                 |         | RCS1-120 |
|                                            |           |                   |         | RCS1-121 |
| - Logical channel identity                 |           | 1                 |         | RCS1-122 |
|                                            |           |                   |         | RCS1-123 |
| - E-DCH MAC-d flow identity                |           | 1                 |         | RCS1-124 |
|                                            |           |                   |         | RCS1-125 |
| - DDI                                      |           | Fixed size        |         | RCS1-126 |
|                                            |           |                   |         | RCS1-127 |
| - CHOICE RLC PDU size                      |           | 1 RLC PDU size    |         | RCS1-128 |
|                                            |           |                   |         | RCS1-129 |
| - RLC PDU size list                        |           | 144 bits          |         | RCS1-130 |
|                                            |           |                   |         | RCS1-131 |
| - RLC PDU size                             |           | FALSE             |         | RCS1-132 |
|                                            |           |                   |         | RCS1-133 |
| - Include in scheduling info               |           | 1                 |         | RCS1-134 |
|                                            |           |                   |         | RCS1-135 |
| - MAC logical channel priority             |           | 1                 |         | RCS1-136 |
|                                            |           |                   |         | RCS1-137 |
| - Downlink RLC logical channel info        |           | 1                 |         | RCS1-138 |
|                                            |           |                   |         | RCS1-139 |
| - Number of RLC logical channels           |           | HS-DSCH           |         | RCS1-140 |
|                                            |           |                   |         | RCS1-141 |
| - Downlink transport channel type          |           | Not present       |         | RCS1-142 |
|                                            |           |                   |         | RCS1-143 |
| - DL DCH Transport channel                 |           | Not Present       |         | RCS1-144 |
|                                            |           |                   |         | RCS1-145 |
| identity                                   |           | MAC-ehs           |         | RCS1-146 |
|                                            |           |                   |         | RCS1-147 |
| identity                                   |           | 1                 |         | RCS1-148 |
|                                            |           |                   |         | RCS1-149 |
| - CHOICE DL MAC header type                |           | 1                 |         | RCS1-150 |
|                                            |           |                   |         | RCS1-151 |
| - DL HS-DSCH MAC-ehs Queue                 |           | 1                 |         | RCS1-152 |
|                                            |           |                   |         | RCS1-153 |
| Id                                         |           | 1                 |         | RCS1-154 |
|                                            |           |                   |         | RCS1-155 |
| - Signalling RB information to setup       | A1        | (AM DCCH for RRC) |         | RCS1-156 |
|                                            |           |                   |         | RCS1-157 |
| - RB identity                              |           | 2                 |         | RCS1-158 |
|                                            |           |                   |         | RCS1-159 |
| - CHOICE RLC info type                     |           | RLC info          |         | RCS1-160 |
|                                            |           |                   |         | RCS1-161 |
| - CHOICE Uplink RLC mode                   |           | AM RLC            |         | RCS1-162 |
|                                            |           |                   |         | RCS1-163 |
| - Transmission RLC discard                 |           | No Discard        |         | RCS1-164 |
|                                            |           |                   |         | RCS1-165 |
| - CHOICE SDU discard mode                  |           | 15                |         | RCS1-166 |
|                                            |           |                   |         | RCS1-167 |
| - MAX_DAT                                  |           | 128               |         | RCS1-168 |
|                                            |           |                   |         | RCS1-169 |
| - Transmission window size                 |           | 500               |         | RCS1-170 |
|                                            |           |                   |         | RCS1-171 |
| - Timer_RST                                |           | 1                 |         | RCS1-172 |
|                                            |           |                   |         | RCS1-173 |
| - Max_RST                                  |           | 200               |         | RCS1-174 |
|                                            |           |                   |         | RCS1-175 |
| - Polling info                             |           | 200               |         | RCS1-176 |
|                                            |           |                   |         | RCS1-177 |
| - Timer_poll_prohibit                      |           | Not present       |         | RCS1-178 |
|                                            |           |                   |         | RCS1-179 |
| - Timer_poll                               |           | 1                 |         | RCS1-180 |
|                                            |           |                   |         | RCS1-181 |
| - Poll_PDU                                 |           | TRUE              |         | RCS1-182 |
|                                            |           |                   |         | RCS1-183 |
| - Poll_SDU                                 |           | TRUE              |         | RCS1-184 |
|                                            |           |                   |         | RCS1-185 |
| - Last transmission PDU poll               |           | 99                |         | RCS1-186 |
|                                            |           |                   |         | RCS1-187 |
| - Last retransmission PDU poll             |           | Not Present       |         | RCS1-188 |
|                                            |           |                   |         | RCS1-189 |
| - Poll_Window                              |           | AM RLC            |         | RCS1-190 |
|                                            |           |                   |         | RCS1-191 |
| - Timer_poll_periodic                      |           | TRUE              |         | RCS1-192 |
|                                            |           |                   |         | RCS1-193 |
| - CHOICE Downlink RLC mode                 |           |                   |         | RCS1-194 |
|                                            |           |                   |         | RCS1-195 |
| - In-sequence delivery                     |           |                   |         | RCS1-196 |
|                                            |           |                   |         | RCS1-197 |

| Information Element                        | Condition | Value/remark                                                                   | Version | Index    |
|--------------------------------------------|-----------|--------------------------------------------------------------------------------|---------|----------|
| - Receiving window size                    | A2        | 128                                                                            | Rel-6   | RCS1-143 |
| - Downlink RLC status info                 |           |                                                                                |         | RCS1-144 |
| - Timer_status_prohibit                    |           | 200                                                                            |         | RCS1-145 |
| - Timer_EPC                                |           | Not Present                                                                    |         | RCS1-146 |
| - Missing PDU indicator                    |           | TRUE                                                                           |         | RCS1-147 |
| - Timer_STATUS_periodic                    |           | Not Present                                                                    |         | RCS1-148 |
| - RB mapping info                          |           |                                                                                |         | RCS1-149 |
| - Information for each multiplexing option |           | 2 RBMuxOptions                                                                 |         | RCS1-150 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                    |         | RCS1-151 |
| - Number of RLC logical channels           |           | 1                                                                              |         | RCS1-152 |
| - Uplink transport channel type            |           | DCH                                                                            |         | RCS1-153 |
| - UL Transport channel identity            |           | 5                                                                              |         | RCS1-154 |
| - Logical channel identity                 |           | 2                                                                              |         | RCS1-155 |
| - CHOICE RLC size list                     |           | Configure                                                                      |         | RCS1-156 |
| - MAC logical channel priority             |           | 2                                                                              |         | RCS1-157 |
| - Downlink RLC logical channel info        |           |                                                                                |         | RCS1-158 |
| - Number of RLC logical channels           |           | 1                                                                              |         | RCS1-159 |
| - Downlink transport channel type          |           | DCH                                                                            |         | RCS1-160 |
| - DL DCH Transport channel identity        |           |                                                                                |         | RCS1-161 |
| - Transport channel identity               |           | 10                                                                             |         | RCS1-162 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                    |         | RCS1-163 |
| - DL HS-DSCH MAC-d flow identity           |           | Not Present                                                                    |         | RCS1-164 |
| - Logical channel identity                 |           | 2                                                                              |         | RCS1-165 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                    |         | RCS1-166 |
| - Number of RLC logical channels           |           | 1                                                                              |         | RCS1-167 |
| - Uplink transport channel type            |           | RACH                                                                           |         | RCS1-168 |
| - UL Transport channel identity            |           | Not Present                                                                    |         | RCS1-169 |
| - Logical channel identity                 |           | 2                                                                              |         | RCS1-170 |
| - CHOICE RLC size list                     |           | Explicit List                                                                  |         | RCS1-171 |
| - RLC size index                           |           | According to clause 6.11.5.4.1.2 (standalone 3.4 kbps signalling radio bearer) |         | RCS1-172 |
| - MAC logical channel priority             |           | 2                                                                              |         | RCS1-173 |
| - Downlink RLC logical channel info        |           |                                                                                |         | RCS1-174 |
| - Number of RLC logical channels           |           | 1                                                                              |         | RCS1-175 |
| - Downlink transport channel type          |           | FACH                                                                           |         | RCS1-176 |
| - DL DCH Transport channel identity        |           | Not Present                                                                    |         | RCS1-177 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                    |         | RCS1-178 |
| - DL HS-DSCH MAC-d flow identity           |           | Not Present                                                                    |         | RCS1-179 |
| - Logical channel identity                 |           | 2                                                                              |         | RCS1-180 |
| - Signalling RB information to setup       |           | (AM DCCH for RRC)                                                              |         | RCS1-181 |
| - RB identity                              |           | 2                                                                              |         | RCS1-182 |
| - CHOICE RLC info type                     |           | RLC info                                                                       |         | RCS1-183 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                                                                         |         | RCS1-184 |
| - Transmission RLC discard                 |           |                                                                                |         | RCS1-185 |
| - CHOICE SDU discard mode                  |           | No Discard                                                                     |         | RCS1-186 |
| - MAX_DAT                                  |           | 15                                                                             |         | RCS1-187 |
| - Transmission window size                 |           | 128                                                                            |         | RCS1-188 |
| - Timer_RST                                |           | 500                                                                            |         | RCS1-189 |
| - Max_RST                                  |           | 1                                                                              |         | RCS1-190 |
| - Polling info                             |           |                                                                                |         | RCS1-191 |
| - Timer_poll_prohibit                      |           | 200                                                                            |         | RCS1-192 |
| - Timer_poll                               |           | 200                                                                            |         | RCS1-193 |
| - Poll_PDU                                 |           | Not present                                                                    |         | RCS1-194 |
| - Poll_SDU                                 |           | 1                                                                              |         | RCS1-195 |
| - Last transmission PDU poll               |           | TRUE                                                                           |         | RCS1-196 |
| - Last retransmission PDU poll             |           | TRUE                                                                           |         | RCS1-197 |
| - Poll_Window                              |           | 99                                                                             |         | RCS1-198 |

| Information Element                        | Condition | Value/remark                        | Version | Index    |
|--------------------------------------------|-----------|-------------------------------------|---------|----------|
| - Timer_poll_periodic                      |           | Not Present                         |         | RCS1-199 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                              |         | RCS1-200 |
| - In-sequence delivery                     |           | TRUE                                |         | RCS1-201 |
| - Receiving window size                    |           | 128                                 |         | RCS1-202 |
| - Downlink RLC status info                 |           |                                     |         | RCS1-203 |
| - Timer_status_prohibit                    |           | 200                                 |         | RCS1-204 |
| - Timer_EPC                                |           | Not Present                         |         | RCS1-205 |
| - Missing PDU indicator                    |           | TRUE                                |         | RCS1-206 |
| - Timer_STATUS_periodic                    |           | Not Present                         |         | RCS1-207 |
| - RB mapping info                          |           |                                     |         | RCS1-208 |
| - Information for each multiplexing option |           | 1 RBMuxOption                       |         | RCS1-209 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RCS1-210 |
| - Number of RLC logical channels           |           | 1                                   |         | RCS1-211 |
| - Uplink transport channel type            |           | E-DCH                               |         | RCS1-212 |
| - Logical channel identity                 |           | 2                                   |         | RCS1-213 |
| - E-DCH MAC-d flow identity                |           | 1                                   |         | RCS1-214 |
| - DDI                                      |           | 2                                   |         | RCS1-215 |
| - RLC PDU size list                        |           | 1 RLC PDU size                      |         | RCS1-216 |
| - RLC PDU size                             |           | 144 bits                            |         | RCS1-217 |
| - Include in scheduling info               |           | FALSE                               |         | RCS1-218 |
| - MAC logical channel priority             |           | 2                                   |         | RCS1-219 |
| - Downlink RLC logical channel info        |           |                                     |         | RCS1-220 |
| - Number of RLC logical channels           |           | 1                                   |         | RCS1-221 |
| - Downlink transport channel type          |           | HS-DSCH                             |         | RCS1-222 |
| - DL DCH Transport channel identity        |           | Not Present                         |         | RCS1-223 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RCS1-224 |
| - DL HS-DSCH MAC-d flow identity           |           | 1                                   |         | RCS1-225 |
| - Logical channel identity                 |           | 2                                   |         | RCS1-226 |
| - Signalling RB information to setup       | A3        | (AM DCCH for RRC)                   | Rel-7   | RCS1-227 |
|                                            | A4, A5    |                                     | Rel-8   | RCS1-228 |
| - RB identity                              |           | Not present                         |         | RCS1-229 |
| - CHOICE RLC info type                     |           |                                     |         | RCS1-230 |
| - RLC info                                 |           |                                     |         | RCS1-231 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                              |         | RCS1-232 |
| - Transmission RLC discard                 |           |                                     |         | RCS1-233 |
| - SDU discard mode                         |           | No discard                          |         | RCS1-234 |
| - MAX_DAT                                  |           | 15                                  |         | RCS1-235 |
| - Transmission window size                 |           | 32                                  |         | RCS1-236 |
| - Timer_RST                                |           | 500                                 |         | RCS1-237 |
| - Max_RST                                  |           | 1                                   |         | RCS1-238 |
| - Polling info                             |           |                                     |         | RCS1-239 |
| - Timer_poll_prohibit                      |           | 200                                 |         | RCS1-240 |
| - Timer_poll                               |           | 200                                 |         | RCS1-241 |
| - Poll_PDU                                 |           | Not Present                         |         | RCS1-242 |
| - Poll_SDU                                 |           | 1                                   |         | RCS1-243 |
| - Last transmission PDU poll               |           | TRUE                                |         | RCS1-244 |
| - Last retransmission PDU poll             |           | TRUE                                |         | RCS1-245 |
| - Poll_Window                              |           | 99                                  |         | RCS1-246 |
| - Timer_poll_periodic                      |           | Not Present                         |         | RCS1-247 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                              |         | RCS1-248 |
| - CHOICE Downlink RLC PDU                  |           | Reference to clause 6 Parameter Set |         | RCS1-249 |
| - Length indicator size                    |           | 7                                   |         | RCS1-250 |
| - In-sequence delivery                     |           | TRUE                                |         | RCS1-251 |
| - Receiving window size                    |           | 32                                  |         | RCS1-252 |
| - Downlink RLC status info                 |           |                                     |         | RCS1-253 |
| - Timer_status_prohibit                    |           | 200                                 |         | RCS1-254 |
| - Timer_EPC                                |           | Not Present                         |         | RCS1-255 |
| - Missing PDU indicator                    |           | TRUE                                |         | RCS1-256 |
| - Timer_STATUS_periodic                    |           | Not Present                         |         | RCS1-257 |
| - Alternative E-bit interpretation         |           | Not Present                         |         | RCS1-258 |
| - Use special value of HE field            |           | TRUE                                |         | RCS1-259 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Condition | Value/remark                                                                                                                                                                                                                  | Version | Index                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- DDI</li> <li>- CHOICE RLC PDU size</li> <li>- RLC PDU size list</li> <li>- RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- CHOICE DL MAC header type</li> <li>- DL HS-DSCH MAC-ehs</li> <li>Queue Id</li> <li>- Logical channel identity</li> </ul>                                                       |           | 1 RB_MUXOption<br><br>Not Present<br><br>1<br>E-DCH<br>2<br>1<br>2<br>Fixed size<br>1 RLC PDU size<br>144 bits<br>FALSE<br>2<br><br>1<br>HS-DSCH<br><br>Not Present<br><br>Not Present<br><br>MAC-ehs<br>1<br>2               | Rel-8   | RCS1-260<br>RCS1-261<br><br>RCS1-262<br><br>RCS1-263<br>RCS1-264<br>RCS1-265<br>RCS1-266<br>RCS1-267<br>RCS1-268<br>RCS1-269<br>RCS1-270<br>RCS1-271<br>RCS1-272<br>RCS1-273<br><br>RCS1-274<br>RCS1-275<br><br>RCS1-276<br><br>RCS1-277<br><br>RCS1-278<br>RCS1-279<br>RCS1-280                                 |
| Signalling RB information to setup <ul style="list-style-type: none"> <li>- RB identity</li> <li>- CHOICE RLC info type</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- CHOICE SDU discard mode</li> <li>- MAX_DAT</li> <li>- Transmission window size</li> <li>- Timer_RST</li> <li>- Max_RST</li> <li>- Polling info</li> <li>- Timer_poll_prohibit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A1        | (AM DCCH for NAS_DT High priority)<br>3<br>RLC info<br>AM RLC<br><br>No Discard<br>15<br>128<br>500<br>1<br><br>200                                                                                                           |         | RCS1-281<br>RCS1-282<br>RCS1-283<br>RCS1-284<br>RCS1-285<br>RCS1-286<br>RCS1-287<br>RCS1-288<br>RCS1-289<br>RCS1-290<br>RCS1-291<br>RCS1-292                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>- Timer_poll</li> <li>- Poll_PDU</li> <li>- Poll_SDU</li> <li>- Last transmission PDU poll</li> <li>- Last retransmission PDU poll</li> <li>- Poll_Windows</li> <li>- Timer_poll_periodic</li> <li>- CHOICE Downlink RLC mode</li> <li>- In-sequence delivery</li> <li>- Receiving window size</li> <li>- Downlink RLC status info</li> <li>- Timer_status_prohibit</li> <li>- Timer_EPC</li> <li>- Missing PDU indicator</li> <li>- Timer_STATUS_periodic</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> </ul> |           | 200<br>Not present<br>1<br>TRUE<br>TRUE<br>99<br>Not Present<br>AM RLC<br>TRUE<br>128<br><br>200<br>Not Present<br>TRUE<br>Not Present<br><br>2 RB_MUXOptions<br><br>Not Present<br><br>1<br>DCH<br>5<br>3<br>Configured<br>3 |         | RCS1-293<br>RCS1-294<br>RCS1-295<br>RCS1-296<br>RCS1-297<br>RCS1-298<br>RCS1-299<br>RCS1-300<br>RCS1-301<br>RCS1-302<br>RCS1-303<br>RCS1-304<br>RCS1-305<br>RCS1-306<br>RCS1-307<br>RCS1-308<br>RCS1-309<br><br>RCS1-310<br><br>RCS1-311<br>RCS1-312<br>RCS1-313<br>RCS1-314<br>RCS1-315<br>RCS1-316<br>RCS1-317 |





| Information Element                  | Condition | Value/remark                        | Version | Index    |
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| - DDI                                |           | 2                                   |         | RCS1-374 |
| - RLC PDU size list                  |           | 1 RLC PDU size                      |         | RCS1-375 |
| - RLC PDU size                       |           | 144 bits                            |         | RCS1-376 |
| - Include in scheduling info         |           | FALSE                               |         | RCS1-377 |
| - MAC logical channel priority       |           | 2                                   |         | RCS1-378 |
| - Downlink RLC logical channel info  |           |                                     |         | RCS1-379 |
| - Number of RLC logical channels     |           | 1                                   |         | RCS1-380 |
| - Downlink transport channel type    |           | HS-DSCH                             |         | RCS1-381 |
| - DL DCH Transport channel           |           | Not Present                         |         | RCS1-382 |
| identity                             |           |                                     |         |          |
| - DL DSCH Transport channel          |           | Not Present                         |         | RCS1-383 |
| identity                             |           |                                     |         |          |
| - DL HS-DSCH MAC-d flow              |           | 1                                   |         | RCS1-384 |
| identity                             |           |                                     |         |          |
| - Logical channel identity           |           | 2                                   |         | RCS1-385 |
| - Signalling RB information to setup | A3        | (AM DCCH for NAS_DT High priority)  | Rel-7   | RCS1-386 |
|                                      | A4, A5    |                                     | Rel-8   | RCS1-387 |
| - RB identity                        |           | Not present                         |         | RCS1-388 |
| - CHOICE RLC info type               |           |                                     |         | RCS1-389 |
| - RLC info                           |           |                                     |         | RCS1-390 |
| - CHOICE Uplink RLC mode             |           | AM RLC                              |         | RCS1-391 |
| - Transmission RLC discard           |           |                                     |         | RCS1-392 |
| - SDU discard mode                   |           | No discard                          |         | RCS1-393 |
| - MAX_DAT                            |           | 15                                  |         | RCS1-394 |
| - Transmission window size           |           | 32                                  |         | RCS1-395 |
| - Timer_RST                          |           | 500                                 |         | RCS1-396 |
| - Max_RST                            |           | 1                                   |         | RCS1-397 |
| - Polling info                       |           |                                     |         | RCS1-398 |
| - Timer_poll_prohibit                |           | 200                                 |         | RCS1-399 |
| - Timer_poll                         |           | 200                                 |         | RCS1-400 |
| - Poll_PDU                           |           | Not Present                         |         | RCS1-401 |
| - Poll_SDU                           |           | 1                                   |         | RCS1-402 |
| - Last transmission PDU poll         |           | TRUE                                |         | RCS1-403 |
| - Last retransmission PDU poll       |           | TRUE                                |         | RCS1-404 |
| - Poll_Window                        |           | 99                                  |         | RCS1-405 |
| - Timer_poll_periodic                |           | Not Present                         |         | RCS1-406 |
| - CHOICE Downlink RLC mode           |           | AM RLC                              |         | RCS1-407 |
| - CHOICE Downlink RLC PDU Size       |           | Reference to clause 6 Parameter Set |         | RCS1-408 |
| - Length indicator size              |           | 7                                   |         | RCS1-409 |
| - In-sequence delivery               |           | TRUE                                |         | RCS1-410 |
| - Receiving window size              |           | 32                                  |         | RCS1-411 |
| - Downlink RLC status info           |           |                                     |         | RCS1-412 |
| - Timer_status_prohibit              |           | 200                                 |         | RCS1-413 |
| - Timer_EPC                          |           | Not Present                         |         | RCS1-414 |
| - Missing PDU indicator              |           | TRUE                                |         | RCS1-415 |
| - Timer_STATUS_periodic              |           | Not Present                         |         | RCS1-416 |
| - Alternative E-bit interpretation   |           | Not Present                         |         | RCS1-417 |
| - Use special value of HE field      |           | TRUE                                |         | RCS1-418 |
| - RB mapping info                    |           |                                     |         | RCS1-419 |
| - Information for each multiplexing  |           | 1 RBMuxOption                       |         | RCS1-420 |
| option                               |           |                                     |         |          |
| - RLC logical channel mapping        |           | Not Present                         |         | RCS1-421 |
| indicator                            |           |                                     |         |          |
| - Number of RLC logical channels     |           | 1                                   |         | RCS1-422 |
| - Uplink transport channel type      |           | E-DCH                               |         | RCS1-423 |
| - Logical channel identity           |           | 3                                   |         | RCS1-424 |
| - E-DCH MAC-d flow identity          |           | 1                                   |         | RCS1-425 |
| - CHOICE RLC PDU size                |           | Fixed size                          | Rel-8   | RCS1-426 |
| - DDI                                |           | 2                                   |         | RCS1-427 |
| - RLC PDU size list                  |           | 1 RLC PDU size                      |         | RCS1-428 |
| - RLC PDU size                       |           | 144 bits                            |         | RCS1-429 |
| - Include in scheduling info         |           | FALSE                               |         | RCS1-430 |
| - MAC logical channel priority       |           | 3                                   |         | RCS1-431 |
| - Downlink RLC logical channel info  |           |                                     |         | RCS1-432 |
| - Number of RLC logical channels     |           | 1                                   |         | RCS1-433 |
| - Downlink transport channel type    |           | HS-DSCH                             |         | RCS1-434 |
| - DL DCH Transport channel           |           | Not Present                         |         | RCS1-435 |

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| identity<br>- DL DSCH Transport channel       |           | Not Present                                                                          |         | RCS1-436 |
| identity<br>- CHOICE DL MAC header type       |           | MAC-ehs                                                                              |         | RCS1-437 |
| - DL HS-DSCH MAC-ehs Queue                    |           | 1                                                                                    |         | RCS1-438 |
| Id<br>- Logical channel identity              |           | 3                                                                                    |         | RCS1-439 |
| - Signalling RB information to setup          | A1        | (AM DCCH for NAS_DT Low priority)                                                    |         | RCS1-440 |
| - RB identity                                 |           | 4                                                                                    |         | RCS1-441 |
| - CHOICE RLC info type                        |           | RLC info                                                                             |         | RCS1-442 |
| - CHOICE Uplink RLC mode                      |           | AM RLC                                                                               |         | RCS1-443 |
| - Transmission RLC discard                    |           |                                                                                      |         | RCS1-444 |
| - CHOICE SDU discard mode                     |           | No discard                                                                           |         | RCS1-445 |
| - MAX_DAT                                     |           | 15                                                                                   |         | RCS1-446 |
| - Transmission window size                    |           | 128                                                                                  |         | RCS1-447 |
| - Timer_RST                                   |           | 500                                                                                  |         | RCS1-448 |
| - Max_RST                                     |           | 1                                                                                    |         | RCS1-449 |
| - Polling info                                |           |                                                                                      |         | RCS1-450 |
| - Timer_poll_prohibit                         |           | 200                                                                                  |         | RCS1-451 |
| - Timer_poll                                  |           | 200                                                                                  |         | RCS1-452 |
| - Poll_PDU                                    |           | Not present                                                                          |         | RCS1-453 |
| - Poll_SDU                                    |           | 1                                                                                    |         | RCS1-454 |
| - Last transmission PDU poll                  |           | TRUE                                                                                 |         | RCS1-455 |
| - Last retransmission PDU poll                |           | TRUE                                                                                 |         | RCS1-456 |
| - Poll_Windows                                |           | 99                                                                                   |         | RCS1-457 |
| - Timer_poll_periodic                         |           | Not Present                                                                          |         | RCS1-458 |
| - CHOICE Downlink RLC mode                    |           | AM RLC                                                                               |         | RCS1-459 |
| - In-sequence delivery                        |           | TRUE                                                                                 |         | RCS1-460 |
| - Receiving window size                       |           | 128                                                                                  |         | RCS1-461 |
| - Downlink RLC status info                    |           |                                                                                      |         | RCS1-462 |
| - Timer_status_prohibit                       |           | 200                                                                                  |         | RCS1-463 |
| - Timer_EPC                                   |           | Not Present                                                                          |         | RCS1-464 |
| - Missing PDU indicator                       |           | TRUE                                                                                 |         | RCS1-465 |
| - Timer_STATUS_periodic                       |           | Not Present                                                                          |         | RCS1-466 |
| - RB mapping info                             |           |                                                                                      |         | RCS1-467 |
| - Information for each multiplexing           |           | 2 RBmuxOptions                                                                       |         | RCS1-468 |
| option<br>- RLC logical channel mapping       |           | Not Present                                                                          |         | RCS1-469 |
| indicator<br>- Number of RLC logical channels |           | 1                                                                                    |         | RCS1-470 |
| - Uplink transport channel type               |           | DCH                                                                                  |         | RCS1-471 |
| - UL Transport channel identity               |           | 5                                                                                    |         | RCS1-472 |
| - Logical channel identity                    |           | 4                                                                                    |         | RCS1-473 |
| - CHOICE RLC size list                        |           | Configured                                                                           |         | RCS1-474 |
| - MAC logical channel priority                |           | 4                                                                                    |         | RCS1-475 |
| - Downlink RLC logical channel info           |           |                                                                                      |         | RCS1-476 |
| - Number of RLC logical channels              |           | 1                                                                                    |         | RCS1-477 |
| - Downlink transport channel type             |           | DCH                                                                                  |         | RCS1-478 |
| - DL DCH Transport channel                    |           |                                                                                      |         | RCS1-479 |
| identity<br>- Transport channel identity      |           | 10                                                                                   |         | RCS1-480 |
| - DL DSCH Transport channel                   |           | Not Present                                                                          |         | RCS1-481 |
| identity<br>- DL HS-DSCH MAC-d flow           |           | Not Present                                                                          |         | RCS1-482 |
| identity<br>- Logical channel identity        |           | 4                                                                                    |         | RCS1-483 |
| - RLC logical channel mapping                 |           | Not Present                                                                          |         | RCS1-484 |
| indicator<br>- Number of RLC logical channels |           | 1                                                                                    |         | RCS1-485 |
| - Uplink transport channel type               |           | RACH                                                                                 |         | RCS1-486 |
| - UL Transport channel identity               |           | Not Present                                                                          |         | RCS1-487 |
| - Logical channel identity                    |           | 4                                                                                    |         | RCS1-488 |
| - CHOICE RLC size list                        |           | Explicit List                                                                        |         | RCS1-489 |
| - RLC size index                              |           | According to clause 6.11.5.4.1.2<br>(standalone 3.4 kbps signalling radio<br>bearer) |         | RCS1-490 |
| - MAC logical channel priority                |           | 4                                                                                    |         | RCS1-491 |

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| - Downlink RLC logical channel info  | A2        | 1                                 |         | RCS1-492 |
| - Number of RLC logical channels     |           | FACH                              |         | RCS1-493 |
| - Downlink transport channel type    |           | Not Present                       |         | RCS1-494 |
| - DL DCH Transport channel           |           |                                   |         | RCS1-495 |
| identity                             |           |                                   |         |          |
| - DL DSCH Transport channel          |           | Not Present                       |         | RCS1-496 |
| identity                             |           |                                   |         |          |
| - DL HS-DSCH MAC-d flow              |           | Not Present                       |         | RCS1-497 |
| identity                             |           |                                   |         |          |
| - Logical channel identity           |           | 4                                 |         | RCS1-498 |
| - Signalling RB information to setup |           | (AM DCCH for NAS_DT Low priority) |         | RCS1-499 |
| - RB identity                        |           | 4                                 |         | RCS1-500 |
| - CHOICE RLC info type               |           | RLC info                          |         | RCS1-501 |
| - CHOICE Uplink RLC mode             |           | AM RLC                            |         | RCS1-502 |
| - Transmission RLC discard           |           |                                   |         | RCS1-503 |
| - CHOICE SDU discard mode            |           | No discard                        |         | RCS1-504 |
| - MAX_DAT                            |           | 15                                |         | RCS1-505 |
| - Transmission window size           |           | 128                               |         | RCS1-506 |
| - Timer_RST                          |           | 500                               |         | RCS1-507 |
| - Max_RST                            |           | 1                                 |         | RCS1-508 |
| - Polling info                       |           |                                   |         | RCS1-509 |
| - Timer_poll_prohibit                |           | 200                               |         | RCS1-510 |
| - Timer_poll                         |           | 200                               |         | RCS1-511 |
| - Poll_PDU                           |           | Not present                       |         | RCS1-512 |
| - Poll_SDU                           |           | 1                                 |         | RCS1-513 |
| - Last transmission PDU poll         |           | TRUE                              |         | RCS1-514 |
| - Last retransmission PDU poll       |           | TRUE                              |         | RCS1-515 |
| - Poll_Windows                       |           | 99                                |         | RCS1-516 |
| - Timer_poll_periodic                |           | Not Present                       |         | RCS1-517 |
| - CHOICE Downlink RLC mode           |           | AM RLC                            |         | RCS1-518 |
| - In-sequence delivery               |           | TRUE                              |         | RCS1-519 |
| - Receiving window size              |           | 128                               |         | RCS1-520 |
| - Downlink RLC status info           |           |                                   |         | RCS1-521 |
| - Timer_status_prohibit              |           | 200                               |         | RCS1-522 |
| - Timer_EPC                          |           | Not Present                       |         | RCS1-523 |
| - Missing PDU indicator              |           | TRUE                              |         | RCS1-524 |
| - Timer_STATUS_periodic              |           | Not Present                       |         | RCS1-525 |
| - RB mapping info                    |           |                                   |         | RCS1-526 |
| - Information for each multiplexing  |           | 1 RBMuxOption                     |         | RCS1-527 |
| option                               |           |                                   |         |          |
| - RLC logical channel mapping        |           | Not Present                       |         | RCS1-528 |
| indicator                            |           |                                   |         |          |
| - Number of RLC logical channels     |           | 1                                 |         | RCS1-529 |
| - Uplink transport channel type      |           | E-DCH                             |         | RCS1-530 |
| - Logical channel identity           |           | 4                                 |         | RCS1-531 |
| - E-DCH MAC-d flow identity          |           | 1                                 |         | RCS1-532 |
| - DDI                                |           | 4                                 |         | RCS1-533 |
| - RLC PDU size list                  |           | 1 RLC PDU size                    |         | RCS1-534 |
| - RLC PDU size                       |           | 144 bits                          |         | RCS1-535 |
| - Include in scheduling info         |           | FALSE                             |         | RCS1-536 |
| - MAC logical channel priority       |           | 4                                 |         | RCS1-537 |
| - Downlink RLC logical channel info  |           |                                   |         | RCS1-538 |
| - Number of RLC logical channels     |           | 1                                 |         | RCS1-539 |
| - Downlink transport channel type    |           | HS-DSCH                           |         | RCS1-540 |
| - DL DCH Transport channel           |           | Not Present                       |         | RCS1-541 |
| identity                             |           |                                   |         |          |
| - DL DSCH Transport channel          |           | Not Present                       |         | RCS1-542 |
| identity                             |           |                                   |         |          |
| - DL HS-DSCH MAC-d flow              |           | 1                                 |         | RCS1-543 |
| identity                             |           |                                   |         |          |
| - Logical channel identity           |           | 4                                 |         | RCS1-544 |
| - RB mapping info                    |           |                                   |         | RCS1-545 |
| - Information for each multiplexing  |           | 1 RBMuxOption                     |         | RCS1-546 |
| option                               |           |                                   |         |          |
| - RLC logical channel mapping        |           | Not Present                       |         | RCS1-547 |
| indicator                            |           |                                   |         |          |
| - Number of RLC logical channels     |           | 1                                 |         | RCS1-548 |

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| - Uplink transport channel type      |           | E-DCH                               |         | RCS1-549 |
| - Logical channel identity           |           | 4                                   |         | RCS1-550 |
| - E-DCH MAC-d flow identity          |           | 1                                   |         | RCS1-551 |
| - DDI                                |           | 4                                   |         | RCS1-552 |
| - RLC PDU size list                  |           | 1 RLC PDU size                      |         | RCS1-553 |
| - RLC PDU size                       |           | 144 bits                            |         | RCS1-554 |
| - Include in scheduling info         |           | FALSE                               |         | RCS1-555 |
| - MAC logical channel priority       |           | 4                                   |         | RCS1-556 |
| - Downlink RLC logical channel info  |           |                                     |         | RCS1-557 |
| - Number of RLC logical channels     |           | 1                                   |         | RCS1-558 |
| - Downlink transport channel type    |           | HS-DSCH                             |         | RCS1-559 |
| - DL DCH Transport channel           |           | Not Present                         |         | RCS1-560 |
| identity                             |           |                                     |         |          |
| - DL DSCH Transport channel          |           | Not Present                         |         | RCS1-561 |
| identity                             |           |                                     |         |          |
| - DL HS-DSCH MAC-d flow              |           | 1                                   |         | RCS1-562 |
| identity                             |           |                                     |         |          |
| - Logical channel identity           |           | 4                                   |         | RCS1-563 |
| - Signalling RB information to setup | A3        | (AM DCCH for NAS DT Low priority)   | Rel-7   | RCS1-564 |
|                                      | , A5      |                                     | Rel-8   | RCS1-565 |
| - RB identity                        |           | Not present                         |         | RCS1-566 |
| - CHOICE RLC info type               |           |                                     |         | RCS1-567 |
| - RLC info                           |           |                                     |         | RCS1-568 |
| - CHOICE Uplink RLC mode             |           | AM RLC                              |         | RCS1-569 |
| - Transmission RLC discard           |           |                                     |         | RCS1-570 |
| - SDU discard mode                   |           | No discard                          |         | RCS1-571 |
| - MAX_DAT                            |           | 15                                  |         | RCS1-572 |
| - Transmission window size           |           | 32                                  |         | RCS1-573 |
| - Timer_RST                          |           | 500                                 |         | RCS1-574 |
| - Max_RST                            |           | 1                                   |         | RCS1-575 |
| - Polling info                       |           |                                     |         | RCS1-576 |
| - Timer_poll_prohibit                |           | 200                                 |         | RCS1-577 |
| - Timer_poll                         |           | 200                                 |         | RCS1-578 |
| - Poll_PDU                           |           | Not Present                         |         | RCS1-579 |
| - Poll_SDU                           |           | 1                                   |         | RCS1-580 |
| - Last transmission PDU poll         |           | TRUE                                |         | RCS1-581 |
| - Last retransmission PDU poll       |           | TRUE                                |         | RCS1-582 |
| - Poll_Window                        |           | 99                                  |         | RCS1-583 |
| - Timer_poll_periodic                |           | Not Present                         |         | RCS1-584 |
| - CHOICE Downlink RLC mode           |           | AM RLC                              |         | RCS1-585 |
| - CHOICE Downlink RLC PDU Size       |           | Reference to clause 6 Parameter Set |         | RCS1-586 |
| - Length indicator size              |           | 7                                   |         | RCS1-587 |
| - In-sequence delivery               |           | TRUE                                |         | RCS1-588 |
| - Receiving window size              |           | 32                                  |         | RCS1-589 |
| - Downlink RLC status info           |           |                                     |         | RCS1-590 |
| - Timer_status_prohibit              |           | 200                                 |         | RCS1-591 |
| - Timer_EPC                          |           | Not Present                         |         | RCS1-592 |
| - Missing PDU indicator              |           | TRUE                                |         | RCS1-593 |
| - Timer_STATUS_periodic              |           | Not Present                         |         | RCS1-594 |
| - Alternative E-bit interpretation   |           | Not Present                         |         | RCS1-595 |
| - Use special value of HE field      |           | TRUE                                |         | RCS1-596 |
| - RB mapping info                    |           |                                     |         | RCS1-597 |
| - Information for each multiplexing  |           | 1 RBMuxOption                       |         | RCS1-598 |
| option                               |           |                                     |         |          |
| - RLC logical channel mapping        |           | Not Present                         |         | RCS1-599 |
| indicator                            |           |                                     |         |          |
| - Number of RLC logical channels     |           | 1                                   |         | RCS1-600 |
| - Uplink transport channel type      |           | E-DCH                               |         | RCS1-601 |
| - Logical channel identity           |           | 4                                   |         | RCS1-602 |
| - E-DCH MAC-d flow identity          |           | 1                                   |         | RCS1-603 |
| - CHOICE RLC PDU size                |           | Fixed size                          | Rel-8   | RCS1-604 |
| - DDI                                |           | 2                                   |         | RCS1-605 |
| - RLC PDU size list                  |           | 1 RLC PDU size                      |         | RCS1-606 |
| - RLC PDU size                       |           | 144 bits                            |         | RCS1-607 |
| - Include in scheduling info         |           | FALSE                               |         | RCS1-608 |
| - MAC logical channel priority       |           | 4                                   |         | RCS1-609 |
| - Downlink RLC logical channel info  |           |                                     |         | RCS1-610 |

| Information Element                                                                                                                                                                                                                   | Condition | Value/remark                                                                                                                                                    | Version | Index    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel</li> </ul>                                                                     |           | 1                                                                                                                                                               |         | RCS1-611 |
| identity                                                                                                                                                                                                                              |           | HS-DSCH                                                                                                                                                         |         | RCS1-612 |
|                                                                                                                                                                                                                                       |           | Not Present                                                                                                                                                     |         | RCS1-613 |
| <ul style="list-style-type: none"> <li>- DL DSCH Transport channel</li> </ul>                                                                                                                                                         |           | Not Present                                                                                                                                                     |         | RCS1-614 |
| identity                                                                                                                                                                                                                              |           | MAC-ehs                                                                                                                                                         |         | RCS1-615 |
| <ul style="list-style-type: none"> <li>- CHOICE DL MAC header type</li> <li>- DL HS-DSCH MAC-ehs Queue</li> </ul>                                                                                                                     |           | 1                                                                                                                                                               |         | RCS1-616 |
| Id                                                                                                                                                                                                                                    |           | 4                                                                                                                                                               |         | RCS1-617 |
| <ul style="list-style-type: none"> <li>- UL Transport channel information for all transport channels</li> <li>- PRACH TFCS</li> <li>- CHOICE mode</li> <li>- Individual UL CCTrCH</li> </ul>                                          | A1        | Not Present                                                                                                                                                     |         | RCS1-618 |
| information                                                                                                                                                                                                                           |           | TDD                                                                                                                                                             |         | RCS1-619 |
|                                                                                                                                                                                                                                       |           | (This IE is repeated for TFC number.)                                                                                                                           |         | RCS1-622 |
| <ul style="list-style-type: none"> <li>- UL TFCS ID</li> <li>- TFCS ID</li> <li>- Shared Channel Indicator</li> <li>- UL TFCS</li> <li>- CHOICE TFCI signalling</li> <li>- TFCI Field 1 Information</li> <li>- CHOICE TFCS</li> </ul> |           | 1                                                                                                                                                               |         | RCS1-623 |
| representation                                                                                                                                                                                                                        |           | FALSE                                                                                                                                                           |         | RCS1-624 |
|                                                                                                                                                                                                                                       |           | Normal                                                                                                                                                          |         | RCS1-625 |
| <ul style="list-style-type: none"> <li>- TFCS complete</li> </ul>                                                                                                                                                                     |           | Complete reconfiguration                                                                                                                                        |         | RCS1-626 |
| reconfiguration information                                                                                                                                                                                                           |           |                                                                                                                                                                 |         | RCS1-627 |
| <ul style="list-style-type: none"> <li>- CHOICE CTFC Size</li> </ul>                                                                                                                                                                  |           | Configured, Number of bits used must be enough to cover all combinations of CTFC according to clause 6.11.5.4.1.2 (standalone 3.4 kbps signalling radio bearer) |         | RCS1-628 |
|                                                                                                                                                                                                                                       |           | This IE is repeated for TFC numbers according to clause 6.11.5.4.1.2 (standalone 3.4 kbps signalling radio bearer)                                              |         | RCS1-629 |
| <ul style="list-style-type: none"> <li>- CTFC information</li> </ul>                                                                                                                                                                  |           | According to clause 6.11.5.4.1.2 (standalone 3.4 kbps signalling radio bearer)                                                                                  |         | RCS1-630 |
| <ul style="list-style-type: none"> <li>- CTFC</li> </ul>                                                                                                                                                                              |           | Computed Gain Factors(The last TFC is set to Signalled Gain Factors)                                                                                            |         | RCS1-631 |
| Information                                                                                                                                                                                                                           |           | 0, Integer(0.. 3)                                                                                                                                               |         | RCS1-632 |
| Factors                                                                                                                                                                                                                               |           | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)                                                                   |         | RCS1-633 |
| ID                                                                                                                                                                                                                                    |           |                                                                                                                                                                 |         | RCS1-634 |
| Factors                                                                                                                                                                                                                               |           |                                                                                                                                                                 |         | RCS1-635 |
| <ul style="list-style-type: none"> <li>- CHOICE mode</li> <li>- Gain Factor</li> </ul>                                                                                                                                                |           | TDD                                                                                                                                                             |         | RCS1-637 |
| Id                                                                                                                                                                                                                                    |           | 15                                                                                                                                                              |         | RCS1-638 |
| <ul style="list-style-type: none"> <li>- Reference</li> </ul>                                                                                                                                                                         |           | 0, Integer (0..3)                                                                                                                                               |         | RCS1-639 |
| TFC ID                                                                                                                                                                                                                                |           | TDD                                                                                                                                                             |         | RCS1-640 |
| <ul style="list-style-type: none"> <li>- CHOICE mode</li> <li>- TFC subset</li> </ul>                                                                                                                                                 |           | Default value is the complete existing set of transport format combinations                                                                                     |         | RCS1-641 |
| <ul style="list-style-type: none"> <li>- CHOICE Subset</li> </ul>                                                                                                                                                                     |           | Allowed transport format combination list                                                                                                                       |         | RCS1-642 |
| representation                                                                                                                                                                                                                        |           | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.)                                                                                            |         | RCS1-643 |
| combination                                                                                                                                                                                                                           |           | Integer (0.. 1023)                                                                                                                                              |         | RCS1-644 |
| <ul style="list-style-type: none"> <li>- Transport format</li> </ul>                                                                                                                                                                  |           | Not present                                                                                                                                                     |         | RCS1-645 |
| combination                                                                                                                                                                                                                           |           |                                                                                                                                                                 |         | RCS1-646 |
| <ul style="list-style-type: none"> <li>- TFC subset list</li> </ul>                                                                                                                                                                   |           |                                                                                                                                                                 |         |          |
| <ul style="list-style-type: none"> <li>- Added or Reconfigured UL TrCH</li> </ul>                                                                                                                                                     |           |                                                                                                                                                                 |         |          |
| information list                                                                                                                                                                                                                      |           |                                                                                                                                                                 |         |          |
| <ul style="list-style-type: none"> <li>- UL Transport channel information for all transport channels</li> </ul>                                                                                                                       | A2        | Not Present                                                                                                                                                     | Rel-6   | RCS1-647 |
|                                                                                                                                                                                                                                       | , A3      |                                                                                                                                                                 | Rel-7   | RCS1-648 |
|                                                                                                                                                                                                                                       | , A4, A5  |                                                                                                                                                                 | Rel-8   | RCS1-649 |

| Information Element                         | Condition | Value/remark                                                                   | Version        | Index                |
|---------------------------------------------|-----------|--------------------------------------------------------------------------------|----------------|----------------------|
| - Added or Reconfigured UL TrCH information | A1        |                                                                                |                | RCS1-650             |
| - Uplink transport channel type             |           | DCH                                                                            |                | RCS1-651             |
| - UL Transport channel identity             |           | 5                                                                              |                | RCS1-652             |
| - TFS                                       |           |                                                                                |                | RCS1-653             |
| - CHOICE Transport channel type             |           | Dedicated transport channels                                                   |                | RCS1-654             |
| - Dynamic Transport format information      |           |                                                                                |                | RCS1-655             |
| - RLC size                                  |           | According to clause 6.11.5.4.1.2 (standalone 3.4 kbps signalling radio bearer) |                | RCS1-656             |
| - Number of TBs and TTI lists               |           | (This IE is repeated for TFI number)                                           |                | RCS1-657             |
| - Transmission Time Interval                |           | Not Present                                                                    |                | RCS1-658             |
| - Number of Transport blocks                |           | Reference to clause 6.11 Parameter Set                                         |                | RCS1-659             |
| - CHOICE Logical channel list               |           | All                                                                            |                | RCS1-660             |
| - Semi-static Transport Format information  |           |                                                                                |                | RCS1-661             |
| - Transmission time interval                |           | Reference to clause 6.11 Parameter Set                                         |                | RCS1-662             |
| - Type of channel coding                    |           | Reference to clause 6.11 Parameter Set                                         |                | RCS1-663             |
| - Coding Rate                               |           | Reference to clause 6.11 Parameter Set                                         |                | RCS1-664             |
| - Rate matching attribute                   |           | Reference to clause 6.11 Parameter Set                                         |                | RCS1-665             |
| - Added or Reconfigured UL TrCH information | A2, A3    | 1 E-DCH added with one DCCH MAC-d flow                                         | Rel-6<br>Rel-7 | RCS1-666<br>RCS1-667 |
| - Uplink transport channel type             |           | E-DCH                                                                          |                | RCS1-668             |
| - CHOICE UL parameters                      |           | E-DCH                                                                          |                | RCS1-669             |
| -CHOICE mode                                |           | TDD                                                                            | Rel-7          | RCS1-670             |
| - HARQ info for E-DCH                       |           |                                                                                | Rel-7          | RCS1-671             |
| - HARQ RV Configuration                     |           | rvtable                                                                        | Rel-7          | RCS1-672             |
| - Added or reconfigured E-DCH MAC-d flow    |           | (for DCCH)                                                                     |                | RCS1-673             |
| - E-DCH MAC-d flow identity                 |           | 1                                                                              |                | RCS1-674             |
| - E-DCH MAC-d flow power offset             |           | 0                                                                              |                | RCS1-675             |
| - E-DCH MAC-d flow maximum                  |           | 7                                                                              |                | RCS1-676             |
| number of retransmissions                   |           |                                                                                |                |                      |
| - E-DCH MAC-d flow multiplexing             |           | Not Present                                                                    |                | RCS1-677             |
| list                                        |           |                                                                                |                |                      |
| - CHOICE transmission grant type            |           | Non-scheduled grant info                                                       | Rel-6          | RCS1-678             |
| -CHOICE mode                                |           | TDD                                                                            | Rel-7          | RCS1-679             |
| -CHOICE <i>TDD Option</i>                   |           | 1.28 Mcps TDD                                                                  | Rel-7          | RCS1-680             |
| -NE-UCCH                                    |           | 1                                                                              | Rel-7          | RCS1-681             |
| -Timeslot Resource Related Information      |           | 00001                                                                          | Rel-7          | RCS1-682             |
| -Power Resource Related Information         |           | 32                                                                             | Rel-7          | RCS1-683             |
| -Activation Time                            |           | now                                                                            | Rel-7          | RCS1-684             |
| -Subframe number                            |           | 1                                                                              | Rel-7          | RCS1-685             |
| -Repetition period                          |           | 1                                                                              | Rel-7          | RCS1-686             |
| -Repetition Length                          |           | 0                                                                              | Rel-7          | RCS1-687             |
| -Code Resource Information                  |           | 4/1                                                                            | Rel-7          | RCS1-688             |
| -E-HICH Information                         |           | Not present                                                                    | Rel-7          | RCS1-689             |
| -Timeslot number                            |           | 1                                                                              |                | RCS1-690             |
| - Channelisation code                       |           | 16/1                                                                           |                | RCS1-691             |
| - Midamble Allocation mode                  |           | Default midamble                                                               |                | RCS1-692             |
| - Midamble configuration                    |           | 8 (k=16)                                                                       |                | RCS1-693             |
| - Midamble Shift                            |           | Not present                                                                    |                | RCS1-694             |
| - Signature Sequence Group Index            |           | 0                                                                              |                | RCS1-695             |
| Added or Reconfigured UL TrCH information   | A4, A5    | 1 E-DCH added with one DCCH MAC-d flow                                         | Rel-8          | RCS1-696             |
| - Uplink transport channel type             |           | E-DCH                                                                          |                | RCS1-697             |
| - CHOICE UL parameters                      |           | E-DCH                                                                          |                | RCS1-698             |
| - UL MAC header type                        |           | MAC-i/is                                                                       |                | RCS1-699             |
| - HARQ info for E-DCH                       |           |                                                                                |                | RCS1-700             |
| - HARQ RV Configuration                     |           | rvtable                                                                        |                | RCS1-701             |
| - Added or reconfigured E-DCH MAC-d flow    |           | (for DCCH)                                                                     |                | RCS1-702             |
| - E-DCH MAC-d flow identity                 |           | 1                                                                              |                | RCS1-703             |
| - E-DCH MAC-d flow power offset             |           | 0                                                                              |                | RCS1-704             |
| - E-DCH MAC-d flow maximum                  |           | 7                                                                              |                | RCS1-705             |
| number of retransmissions                   |           |                                                                                |                |                      |

| Information Element                                               | Condition | Value/remark                                 | Version | Index    |
|-------------------------------------------------------------------|-----------|----------------------------------------------|---------|----------|
| list                                                              |           | Not Present                                  |         | RCS1-706 |
| - E-DCH MAC-d flow multiplexing                                   |           |                                              |         |          |
| - CHOICE transmission grant type                                  |           | Scheduled grant info                         |         | RCS1-707 |
| DL Transport channel information common for all transport channel |           |                                              |         | RCS1-708 |
| - SCCPCH TFCS                                                     |           | Not Present                                  |         | RCS1-709 |
| - CHOICE mode                                                     |           | TDD                                          |         | RCS1-710 |
| -Individual DL CCTrCH information                                 |           |                                              |         | RCS1-711 |
| - DL TFCS Identity                                                |           |                                              |         | RCS1-712 |
| - TFCS ID                                                         |           | 1                                            |         | RCS1-713 |
| - Shared Channel Indicator                                        |           | FALSE                                        |         | RCS1-714 |
| - CHOICE DL parameters                                            |           | Same as UL                                   |         | RCS1-715 |
| DL Transport channel information common for all transport channel | A2, A3    | Not Present                                  | Rel-7   | RCS1-716 |
| - Added or Reconfigured TrCH information list                     | , A4, A5  |                                              | Rel-8   | RCS1-717 |
| - Added or Reconfigured DL TrCH information                       | A1        |                                              |         | RCS1-718 |
| - Downlink transport channel type                                 |           | DCH                                          |         | RCS1-720 |
| - DL Transport channel identity                                   |           | 10                                           |         | RCS1-721 |
| - CHOICE DL parameters                                            |           | Same as UL                                   |         | RCS1-722 |
| - Uplink transport channel type                                   |           | DCH                                          |         | RCS1-723 |
| - UL Transport channel identity                                   |           | 5                                            |         | RCS1-724 |
| -DCH quality target                                               |           |                                              |         | RCS1-725 |
| - BLER Quality value                                              |           | -63 (-6.3)                                   |         | RCS1-726 |
| - Added or Reconfigured TrCH information list                     | A2        |                                              |         | RCS1-727 |
| - Added or Reconfigured DL TrCH information                       |           |                                              |         | RCS1-728 |
| - Downlink transport channel type                                 |           | HS-DSCH                                      |         | RCS1-729 |
| - DL Transport channel identity                                   |           | 10                                           |         | RCS1-730 |
| - CHOICE DL parameters                                            |           | HS-DSCH                                      |         | RCS1-731 |
| - Added or reconfigured MAC-d flow                                |           |                                              |         | RCS1-732 |
| - MAC-hs queue to add or reconfigure list                         |           | (one queue)                                  |         | RCS1-733 |
| - MAC-hs queue Id                                                 |           | 1 (for DCCH)                                 |         | RCS1-734 |
| - MAC-d Flow Identity                                             |           | 1                                            |         | RCS1-735 |
| - T1                                                              |           | 50                                           |         | RCS1-736 |
| - MAC-hs window size                                              |           | Integer(32, 64, 96, 128, 160, 192, 256)      | Rel-7   | RCS1-737 |
| - MAC-d PDU size Info                                             |           |                                              |         | RCS1-738 |
| - MAC-d PDU size                                                  |           | 148                                          |         | RCS1-739 |
| - MAC-d PDU size index                                            |           | 0                                            |         | RCS1-740 |
| - MAC-hs queue to delete list                                     |           | Not present                                  |         | RCS1-741 |
| - DCH quality target                                              |           | Not present                                  |         | RCS1-742 |
| - Added or reconfigured MAC-d flow                                |           |                                              |         | RCS1-743 |
| Added or Reconfigured DL TrCH information                         | A3        | 1 TrCH (HS-DSCH for DCCH)                    | Rel-7   | RCS1-744 |
|                                                                   | A4        |                                              | Rel-8   | RCS1-745 |
| - Downlink transport channel type                                 |           | HS-DSCH                                      |         | RCS1-746 |
| - DL Transport channel identity                                   |           | Not Present                                  |         | RCS1-747 |
| - CHOICE DL parameters                                            |           | HS-DSCH                                      |         | RCS1-748 |
| - HARQ Info                                                       |           |                                              |         | RCS1-749 |
| - Number of Processes                                             |           | Reference to clause 6.11.5.4.6 Parameter Set |         | RCS1-750 |
| - CHOICE Memory Partitioning                                      |           | Implicit                                     |         | RCS1-751 |
| - CHOICE DL MAC header type                                       |           | MAC-ehs                                      |         | RCS1-752 |
| - Added or reconfigured MAC-ehs reordering queue                  |           |                                              |         | RCS1-753 |
| - MAC-ehs queue to add or reconfigure list                        |           | (1 queue)                                    |         | RCS1-754 |
| - MAC-ehs queue Id                                                |           | 1                                            |         | RCS1-755 |
| - T1                                                              |           | 50                                           |         | RCS1-756 |
| - MAC-ehs window size                                             |           | 16                                           |         | RCS1-757 |
| - MAC-ehs queue to delete list                                    |           | Not present                                  |         | RCS1-758 |
| - DCH quality target                                              |           | Not present                                  |         | RCS1-759 |

| Information Element                       | Condition  | Value/remark                                                                                                  | Version        | Index                |
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| Added or Reconfigured DL TrCH information | A5         | Not present                                                                                                   | Rel-8          | RCS1-760             |
| Frequency info                            |            | Not Present                                                                                                   |                | RCS1-761             |
| Multi-frequency Info                      |            | Not Present                                                                                                   | Rel-7          | RCS1-761a            |
| SPS Information                           |            | Not Present                                                                                                   | Rel-8          | RCS1-761b            |
| MU-MIMO info                              |            | Not Present                                                                                                   | Rel-10         | RCS1-761c            |
| Maximum allowed UL TX power               |            | 33dBm                                                                                                         |                | RCS1-762             |
| CHOICE channel requirement                | A1         | Uplink DPCH info                                                                                              |                | RCS1-763             |
| - Uplink DPCH power control info          |            |                                                                                                               |                | RCS1-764             |
| - CHOICE mode                             |            | TDD                                                                                                           |                | RCS1-765             |
| - UL target SIR                           |            | 25 dB                                                                                                         |                | RCS1-766             |
| - CHOICE <i>UL OL PC info</i>             |            | Individually signalled                                                                                        |                | RCS1-768             |
| - CHOICE <i>TDD option</i>                |            | 1.28 Mcps TDD                                                                                                 |                | RCS1-769             |
| - TPC step size                           |            | 1 dB                                                                                                          |                | RCS1-770             |
| - Primary CCPCH Tx Power                  |            | Not Present                                                                                                   |                | RCS1-771             |
| - CHOICE mode                             |            | TDD                                                                                                           |                | RCS1-772             |
| - Uplink Timing Advance Control           |            |                                                                                                               |                | RCS1-773             |
| - CHOICE Timing Advance                   |            | Enabled                                                                                                       |                | RCS1-774             |
| - CHOICE TDD option                       |            | 1.28 Mcps TDD                                                                                                 |                | RCS1-775             |
| - Uplink synchronization                  |            |                                                                                                               |                | RCS1-776             |
| parameters                                |            |                                                                                                               |                |                      |
| - Uplink synchronization step size        |            | 1                                                                                                             |                | RCS1-777             |
| - Uplink synchronization frequency        |            | 1                                                                                                             |                | RCS1-778             |
| - Synchronization parameters              |            | Not present                                                                                                   |                | RCS1-779             |
| - UL CCTrCH List                          |            |                                                                                                               |                | RCS1-780             |
| - TFCS ID                                 |            | 1                                                                                                             |                | RCS1-781             |
| - UL Target SIR                           |            | 25 dB                                                                                                         |                | RCS1-782             |
| - Time info                               |            |                                                                                                               |                | RCS1-783             |
| - Activation time                         |            | Not present                                                                                                   |                | RCS1-784             |
| - Duration                                |            | Not present                                                                                                   |                | RCS1-785             |
| - Common timeslot info                    |            |                                                                                                               |                | RCS1-786             |
| - 2 <sup>nd</sup> interleaving mode       |            | Reference to clause 6 Parameter Set                                                                           |                | RCS1-787             |
| - TFCI coding                             |            | Reference to clause 6 Parameter Set                                                                           |                | RCS1-788             |
| - Puncturing Limit                        |            | Reference to clause 6 Parameter Set                                                                           |                | RCS1-789             |
| - Repetition Period                       |            |                                                                                                               |                | RCS1-790             |
| - Repetition Length                       |            | null                                                                                                          |                | RCS1-791             |
| - Uplink DPCH timeslots and codes         |            |                                                                                                               |                | RCS1-792             |
| - Dynamic SF usage                        |            | FALSE                                                                                                         |                | RCS1-793             |
| - First individual timeslot info          |            |                                                                                                               |                | RCS1-794             |
| - Timeslot number                         |            |                                                                                                               |                | RCS1-795             |
| - CHOICE TDD option                       |            | 1.28 Mcps TDD                                                                                                 |                | RCS1-796             |
| - Timeslot number                         |            | 1 OR 2 OR 3                                                                                                   |                | RCS1-797             |
| - TFCI existence                          |            | TRUE                                                                                                          |                | RCS1-798             |
| - Midamble shift and burst type           |            |                                                                                                               |                | RCS1-799             |
| - CHOICE TDD option                       |            | 1.28 Mcps TDD                                                                                                 |                | RCS1-800             |
| - Midamble allocation                     |            | Default midamble                                                                                              |                | RCS1-801             |
| mode                                      |            |                                                                                                               |                |                      |
| - Midamble configuration                  |            | 8 (k=16)                                                                                                      |                | RCS1-802             |
| - Midamble Shift                          |            | Not Present                                                                                                   |                | RCS1-803             |
| - CHOICE TDD option                       |            | 1.28 Mcps TDD                                                                                                 |                | RCS1-804             |
| - Modulation                              |            | QPSK                                                                                                          |                | RCS1-805             |
| - SS-TPC Symbols                          |            | 1                                                                                                             |                | RCS1-806             |
| - Additional TPC-SS                       |            | Not present                                                                                                   |                | RCS1-807             |
| Symbols                                   |            |                                                                                                               |                |                      |
| - First timeslot Code List                |            | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |                | RCS1-808             |
| - channelisation codes                    |            | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.               |                | RCS1-809             |
| - CHOICE more timeslots                   |            | No more timeslots                                                                                             |                | RCS1-810             |
| - UL CCTrCH List to Remove                |            | Not present                                                                                                   |                | RCS1-811             |
| CHOICE channel requirement                | A2, A3, A4 | Uplink DPCH info                                                                                              | Rel-7<br>Rel-8 | RCS1-812<br>RCS1-813 |



| Information Element                 | Condition | Value/remark                                                                                                  | Version | Index    |
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| - Uplink DPCH power control info    |           | TDD                                                                                                           |         | RCS1-814 |
| - CHOICE mode                       |           | 25 dB                                                                                                         |         | RCS1-815 |
| - UL target SIR                     |           | Individually signalled                                                                                        |         | RCS1-816 |
| - CHOICE <i>UL OL PC info</i>       |           | 1.28 Mcps TDD                                                                                                 |         | RCS1-818 |
| - CHOICE <i>TDD option</i>          |           | 1 dB                                                                                                          |         | RCS1-819 |
| - TPC step size                     |           | Not Present                                                                                                   |         | RCS1-820 |
| - Primary CCPCH Tx Power            |           | TDD                                                                                                           |         | RCS1-821 |
| - CHOICE mode                       |           | Enabled                                                                                                       |         | RCS1-822 |
| - Uplink Timing Advance Control     |           | 1.28 Mcps TDD                                                                                                 |         | RCS1-823 |
| - CHOICE Timing Advance             |           |                                                                                                               |         | RCS1-824 |
| - CHOICE TDD option                 |           |                                                                                                               |         | RCS1-825 |
| - Uplink synchronization            |           |                                                                                                               |         | RCS1-826 |
| parameters                          |           |                                                                                                               |         |          |
| - Uplink synchronization step       |           | 1                                                                                                             |         | RCS1-827 |
| size                                |           |                                                                                                               |         |          |
| - Uplink synchronization            |           | 1                                                                                                             |         | RCS1-828 |
| frequency                           |           |                                                                                                               |         |          |
| - Synchronization parameters        |           | Not present                                                                                                   |         | RCS1-829 |
| - UL CCTrCH List                    |           |                                                                                                               |         | RCS1-830 |
| - TFCS ID                           |           | 1                                                                                                             |         | RCS1-831 |
| - UL Target SIR                     |           | 25 dB                                                                                                         |         | RCS1-832 |
| - Time info                         |           |                                                                                                               |         | RCS1-833 |
| - Activation time                   |           | Not present                                                                                                   |         | RCS1-834 |
| - Duration                          |           | Not present                                                                                                   |         | RCS1-835 |
| - Common timeslot info              |           |                                                                                                               |         | RCS1-836 |
| - 2 <sup>nd</sup> interleaving mode |           | Reference to clause 6 Parameter Set                                                                           |         | RCS1-837 |
| - TFCI coding                       |           | Reference to clause 6 Parameter Set                                                                           |         | RCS1-838 |
| - Puncturing Limit                  |           | Reference to clause 6 Parameter Set                                                                           |         | RCS1-839 |
| - Repetition Period                 |           |                                                                                                               |         | RCS1-840 |
| - Repetition Length                 |           | null                                                                                                          |         | RCS1-841 |
| - Uplink DPCH timeslots and         |           |                                                                                                               |         | RCS1-842 |
| codes                               |           |                                                                                                               |         |          |
| - Dynamic SF usage                  |           | FALSE                                                                                                         |         | RCS1-843 |
| - First individual timeslot info    |           |                                                                                                               |         | RCS1-844 |
| - Timeslot number                   |           |                                                                                                               |         | RCS1-845 |
| - CHOICE TDD option                 |           | 1.28 Mcps TDD                                                                                                 |         | RCS1-846 |
| - Timeslot number                   |           | 1 OR 2 OR 3                                                                                                   |         | RCS1-847 |
| - TFCI existence                    |           | TRUE                                                                                                          |         | RCS1-848 |
| - Midamble shift and burst type     |           |                                                                                                               |         | RCS1-849 |
| - CHOICE TDD option                 |           | 1.28 Mcps TDD                                                                                                 |         | RCS1-850 |
| - Midamble allocation               |           | Default midamble                                                                                              |         | RCS1-851 |
| mode                                |           |                                                                                                               |         |          |
| - Midamble configuration            |           | 8 (k=16)                                                                                                      |         | RCS1-852 |
| - Midamble Shift                    |           | Not Present                                                                                                   |         | RCS1-853 |
| - CHOICE TDD option                 |           | 1.28 Mcps TDD                                                                                                 |         | RCS1-854 |
| - Modulation                        |           | QPSK                                                                                                          |         | RCS1-855 |
| - SS-TPC Symbols                    |           | 1                                                                                                             |         | RCS1-856 |
| - Additional TPC-SS                 |           | Not present                                                                                                   |         | RCS1-857 |
| Symbols                             |           |                                                                                                               |         |          |
| - First timeslot Code List          |           | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |         | RCS1-858 |
| - channelisation codes              |           | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.               |         | RCS1-859 |
| - CHOICE more timeslots             |           | No more timeslots                                                                                             |         | RCS1-860 |
| - UL CCTrCH List to Remove          |           | Not present                                                                                                   |         | RCS1-861 |
| CHOICE channel requirement          | A5        | Not Present                                                                                                   | Rel-8   | RCS1-862 |
| E-DCH Info                          | A1        | Not Present                                                                                                   | Rel-6   | RCS1-863 |
|                                     | A5        |                                                                                                               | Rel-8   | RCS1-864 |
| E-DCH info                          | A2, A3    |                                                                                                               | Rel-7   | RCS1-865 |
|                                     | , A4      |                                                                                                               | Rel-8   | RCS1-866 |
| - MAC-es/e reset indicator          |           | TRUE                                                                                                          |         | RCS1-867 |
| - CHOICE mode                       |           | TDD                                                                                                           |         | RCS1-868 |
| - CHOICE TDD option                 |           | 1.28 Mcps TDD                                                                                                 |         | RCS1-869 |
| -E-RUCCH Info                       |           |                                                                                                               |         | RCS1-870 |
| -T-RUCCH                            |           | 200ms                                                                                                         |         | RCS1-871 |

| Information Element                             | Condition | Value/remark     | Version | Index    |
|-------------------------------------------------|-----------|------------------|---------|----------|
| - N-RUCCH                                       |           | 3                |         | RCS1-872 |
| - T-WAIT                                        |           | 40ms             |         | RCS1-873 |
| -E-PUCH Info                                    |           |                  |         | RCS1-874 |
| -E-TFCS info                                    |           |                  |         | RCS1-875 |
| -Reference Beta Information QPSK list           |           | 1                |         | RCS1-876 |
| -Reference Code Rate                            |           | 1                |         | RCS1-877 |
| -Reference Beta                                 |           | 0                |         | RCS1-878 |
| -Reference Beta Information 16QAM list          |           | 1                |         | RCS1-879 |
| -Reference Code Rate                            |           | 6                |         | RCS1-880 |
| -Reference Beta                                 |           | 0                |         | RCS1-881 |
| -CHOICE TDD mode                                |           | 1.28 Mcps TDD    |         | RCS1-882 |
| -SNPL Reporting Type                            |           | Type1            |         | RCS1-883 |
| -PRXdes_base                                    |           | -100             |         | RCS1-884 |
| -Beacon PL Est.                                 |           | FALSE            |         | RCS1-885 |
| -TPC step size                                  |           | 1                |         | RCS1-886 |
| -Uplink synchronisation parameters              |           |                  |         | RCS1-887 |
| -Uplink synchronisation step size               |           | 1                |         | RCS1-888 |
| -Uplink synchronisation frequency               |           | 1                |         | RCS1-889 |
| -E-PUCH TS configuration list                   |           | 1                |         | RCS1-890 |
| -TS number                                      |           | 1                |         | RCS1-891 |
| -Midamble shift and burst type                  |           |                  |         | RCS1-892 |
| -Midamble Allocation Mode                       |           | Default midamble |         | RCS1-893 |
| -Midamble configuration                         |           | 8 (k=16)         |         | RCS1-894 |
| -Midamble Shift                                 |           | Not present      |         | RCS1-895 |
| -Minimum allowed code rate                      |           | 0                |         | RCS1-896 |
| -Maximum allowed code rate                      |           | 63               |         | RCS1-897 |
| Downlink HS-PDSCH Information                   | A1        | Not Present      | Rel-6   | RCS1-898 |
| Downlink HS-PDSCH Information                   | A2, A3    |                  | Rel-7   | RCS1-899 |
|                                                 | , A4, A5  |                  | Rel-8   | RCS1-900 |
| - HS-SCCH Info                                  |           |                  |         | RCS1-901 |
| - CHOICE mode                                   |           | TDD              |         | RCS1-902 |
| - CHOICE TDD option                             |           | 1.28 Mcps        |         | RCS1-903 |
| - HS-SCCH Set Configuration                     |           |                  |         | RCS1-904 |
| - Timeslot number                               |           | 6                |         | RCS1-905 |
| - First Channelisation code                     |           | (16/11)          |         | RCS1-906 |
| - Second Channelisation code                    |           | (16/12)          |         | RCS1-907 |
| - Midamble Allocation mode                      |           | Default midamble |         | RCS1-908 |
| - Midamble configuration                        |           | 8 (k=16)         |         | RCS1-909 |
| - BLER target                                   |           | -2.0             |         | RCS1-910 |
| - HS-SICH configuration                         |           |                  |         | RCS1-911 |
| - Timeslot number                               |           | 1                |         | RCS1-912 |
| - Channelisation code                           |           | (16/13)          |         | RCS1-913 |
| - Midamble Allocation mode                      |           | Default midamble |         | RCS1-914 |
| - Midamble configuration                        |           | 8 (k=16)         |         | RCS1-915 |
| - Ack-Nack Power Offset                         |           | 0                |         | RCS1-916 |
| - PRX <sub>HS-SICH</sub>                        |           |                  |         | RCS1-917 |
| - TPC step size                                 |           | 1dB              |         | RCS1-918 |
| - CHOICE mode                                   |           | TDD              |         | RCS1-947 |
| - CHOICE TDD option                             |           | 1.28 Mcps TDD    |         | RCS1-948 |
| - HS-PDSCH Midamble Configuration               |           |                  |         | RCS1-949 |
| - Midamble Allocation Mode                      |           | Default midamble |         | RCS1-950 |
| - Midamble Configuration                        |           | 8 (k=16)         |         | RCS1-951 |
| - Midamble Shift                                |           | Not present      |         | RCS1-952 |
| Downlink information common for all radio links | A1        |                  |         | RCS1-953 |
| - Downlink DPCH info common for all RL          |           |                  |         | RCS1-954 |
| - Timing indication                             |           | Initialize       |         | RCS1-955 |
| - CFN-targetSFN frame offset                    |           | Not Present      |         | RCS1-956 |
| - Downlink DPCH power control information       |           |                  |         | RCS1-957 |
| - CHOICE mode                                   |           | TDD              |         | RCS1-958 |
| - TPC Step Size                                 |           | 1 dB             |         | RCS1-959 |
| - MAC-d HFN initial value                       |           | Not Present      |         | RCS1-960 |
| - CHOICE mode                                   |           | TDD (no data)    |         | RCS1-961 |
| - CHOICE mode                                   |           | TDD              |         | RCS1-962 |
| - CHOICE TDD option                             |           | 1.28 Mcps TDD    |         | RCS1-963 |

| Information Element                             | Condition  | Value/remark                           | Version        | Index     |
|-------------------------------------------------|------------|----------------------------------------|----------------|-----------|
| - TSTD indicator                                | A2, A3, A4 | FALSE                                  | Rel-5<br>Rel-8 | RCS1-964  |
| - Default DPCH Offset Value                     |            | Not Present                            |                | RCS1-965  |
| Downlink information common for all radio links |            |                                        |                | RCS1-966  |
| - Downlink DPCH info common for all RL          |            |                                        |                | RCS1-967  |
| - Timing indication                             |            | Initialize                             |                | RCS1-968  |
| - CFN-targetSFN frame offset                    |            | Not Present                            |                | RCS1-969  |
| - Downlink DPCH power control information       |            |                                        |                | RCS1-970  |
| - CHOICE mode                                   |            | TDD                                    |                | RCS1-971  |
| - TPC Step Size                                 |            | 1                                      |                | RCS1-972  |
| - MAC-d HFN initial value                       |            | Not Present                            |                | RCS1-973  |
| - CHOICE mode                                   | A5         | TDD                                    | Rel-8          | RCS1-974  |
| - CHOICE mode                                   |            | TDD                                    |                | RCS1-975  |
| - CHOICE TDD option                             |            | 1.28 Mcps TDD                          |                | RCS1-976  |
| - TSTD indicator                                |            | FALSE                                  |                | RCS1-977  |
| - Default DPCH Offset Value                     |            | Not Present                            |                | RCS1-978  |
| - MAC-hs reset indicator                        |            | TRUE                                   |                | RCS1-979  |
| Downlink information common for all radio links |            | Not present                            |                | RCS1-980  |
| Downlink information for each radio link list   |            |                                        |                | RCS1-981  |
| - Downlink information for each radio link      | A1         |                                        |                | RCS1-982  |
| - Choice mode                                   |            | TDD                                    |                | RCS1-983  |
| - Primary CCPCH info                            |            |                                        |                | RCS1-984  |
| - CHOICE mode                                   |            | TDD                                    |                | RCS1-985  |
| - CHOICE TDD option                             |            | 1.28 Mcps TDD                          |                | RCS1-986  |
| - TSTD indicator                                |            | FALSE                                  |                | RCS1-987  |
| - Cell parameters ID                            |            | Not present                            |                | RCS1-988  |
| - SCTD indicator                                |            | FALSE                                  |                | RCS1-989  |
| - Downlink DPCH info for each RL                |            |                                        |                | RCS1-990  |
| - CHOICE mode                                   |            | TDD                                    |                | RCS1-991  |
| - DL CCTrCH List                                |            |                                        |                | RCS1-992  |
| - TFCS ID                                       |            | 1                                      |                | RCS1-993  |
| - Time info                                     |            |                                        |                | RCS1-994  |
| - Activation time                               |            | Not present                            |                | RCS1-995  |
| - Duration                                      |            | Not present                            |                | RCS1-996  |
| - Common timeslot info                          |            |                                        |                | RCS1-997  |
| - 2 <sup>nd</sup> interleaving mode             |            | Reference to clause 6.11 Parameter set |                | RCS1-998  |
| - TFCI coding                                   |            | Reference to clause 6.11 Parameter set |                | RCS1-999  |
| - Puncturing limit                              |            | Reference to clause 6.11 Parameter set |                | RCS1-1000 |
| - Repetition period                             |            | 1                                      |                | RCS1-1001 |
| - Repetition length                             |            | NULL                                   |                | RCS1-1002 |
| - Downlink DPCH timeslots                       |            |                                        |                | RCS1-1003 |
| and codes                                       |            |                                        |                | RCS1-1004 |
| - First Individual timeslot                     |            |                                        |                | RCS1-1005 |
| info                                            |            |                                        |                | RCS1-1006 |
| - Timeslot number                               |            |                                        |                | RCS1-1007 |
| - CHOICE more timeslots                         |            |                                        |                | RCS1-1008 |
| - CHOICE TDD option                             |            | 1.28 McpsTDD                           |                | RCS1-1009 |
| - Timeslot number                               |            | 4 OR 5 OR 6                            |                | RCS1-1010 |
| - Individual timeslot                           |            |                                        |                |           |
| info                                            |            |                                        |                |           |
| - TFCI existence                                |            | TRUE                                   |                | RCS1-1011 |
| - Midamble shift and                            |            |                                        |                | RCS1-1012 |
| burst type                                      |            |                                        |                |           |
| - CHOICE TDD option                             |            | 1.28 Mcps TDD                          |                | RCS1-1013 |
| -Midamble                                       |            | Default                                |                | RCS1-1014 |
| Allocation Mode                                 |            |                                        |                |           |
| - Midamble                                      |            | 8 (k=16)                               |                | RCS1-1015 |
| configuration                                   |            |                                        |                |           |
| - Midamble Shift                                |            | Not present                            |                | RCS1-1016 |
| - CHOICE TDD option                             |            | 1.28 Mcps TDD                          |                | RCS1-1017 |
| - Modulation                                    |            | QPSK                                   |                | RCS1-1018 |
| - SS-TPC Symbols                                |            | 1                                      |                | RCS1-1019 |
| - Additional TPC-SS                             |            | Not present                            |                | RCS1-1020 |
| Symbols                                         |            |                                        |                |           |

| Information Element                        | Condition | Value/remark                                                                                                                                                     | Version    | Index     |
|--------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| - First timeslot                           |           |                                                                                                                                                                  |            | RCS1-1021 |
| channelisation codes                       |           |                                                                                                                                                                  |            |           |
| - CHOICE codes                             |           | Consecutive codes                                                                                                                                                |            | RCS1-1022 |
| representation                             |           |                                                                                                                                                                  |            |           |
| - First channelisation code                |           | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set..                                                |            | RCS1-1023 |
| - Last channelisation code                 |           | (j/SF) where j is the highest numbered code that is being assigned in the slot.                                                                                  |            | RCS1-1024 |
| - CHOICE more timeslots                    |           | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. |            | RCS1-1025 |
| - UL CCTrCH TPC List                       |           |                                                                                                                                                                  |            | RCS1-1026 |
| - UL TPC TFCS Identity                     |           | 1                                                                                                                                                                |            | RCS1-1027 |
| - DL CCTrCH List to Remove                 |           | Not present                                                                                                                                                      |            | RCS1-1028 |
| - SCCPCH information for                   |           | Not Present                                                                                                                                                      |            | RCS1-1029 |
| FACH                                       |           |                                                                                                                                                                  | R99 and    |           |
| Downlink information for each radio link   | A2, A3    |                                                                                                                                                                  | Rel-4 only | RCS1-1030 |
| list                                       | , A4      |                                                                                                                                                                  | Rel-7      | RCS1-1031 |
| - Downlink information for each radio link |           |                                                                                                                                                                  | Rel-8      | RCS1-1032 |
| - Choice mode                              |           | TDD                                                                                                                                                              |            | RCS1-1033 |
| - Primary CCPCH info                       |           |                                                                                                                                                                  |            | RCS1-1034 |
| - CHOICE mode                              |           | TDD                                                                                                                                                              |            | RCS1-1035 |
| - CHOICE TDD option                        |           | 1.28 Mcps TDD                                                                                                                                                    |            | RCS1-1036 |
| - TSTD indicator                           |           | FALSE                                                                                                                                                            |            | RCS1-1037 |
| - Cell parameters ID                       |           | Not present                                                                                                                                                      |            | RCS1-1038 |
| - SCTD indicator                           |           | FALSE                                                                                                                                                            |            | RCS1-1039 |
| - Downlink DPCH info for each RL           |           |                                                                                                                                                                  |            | RCS1-1040 |
| - CHOICE mode                              |           | TDD                                                                                                                                                              |            | RCS1-1041 |
| - DL CCTrCH List                           |           |                                                                                                                                                                  |            | RCS1-1042 |
| - TFCS ID                                  |           | 1                                                                                                                                                                |            | RCS1-1043 |
| - Time info                                |           |                                                                                                                                                                  |            | RCS1-1044 |
| - Activation time                          |           | (256+CFN-(CFN mod 8 + 8))mod 256                                                                                                                                 |            | RCS1-1045 |
| - Duration                                 |           | infinite                                                                                                                                                         |            | RCS1-1046 |
| - Common timeslot info                     |           |                                                                                                                                                                  |            | RCS1-1047 |
| - 2nd interleaving mode                    |           | Reference to clause 6.11 Parameter set                                                                                                                           |            | RCS1-1048 |
| - TFCI coding                              |           | Reference to clause 6.11 Parameter set                                                                                                                           |            | RCS1-1049 |
| - Puncturing limit                         |           | Reference to clause 6.11 Parameter set                                                                                                                           |            | RCS1-1050 |
| - Repetition period                        |           | 1                                                                                                                                                                |            | RCS1-1051 |
| - Repetition length                        |           | NULL                                                                                                                                                             |            | RCS1-1052 |
| - Downlink DPCH timeslots                  |           |                                                                                                                                                                  |            | RCS1-1053 |
| and codes                                  |           |                                                                                                                                                                  |            |           |
| - First Individual timeslot                |           |                                                                                                                                                                  |            | RCS1-1054 |
| info                                       |           |                                                                                                                                                                  |            |           |
| - Timeslot number                          |           |                                                                                                                                                                  |            | RCS1-1055 |
| - CHOICE more timeslots                    |           |                                                                                                                                                                  |            | RCS1-1056 |
| - CHOICE TDD option                        |           | 1.28 McpsTDD                                                                                                                                                     |            | RCS1-1057 |
| - Timeslot number                          |           | 4 OR 5 OR 6                                                                                                                                                      |            | RCS1-1058 |
| - Individual timeslot                      |           |                                                                                                                                                                  |            | RCS1-1059 |
| info                                       |           |                                                                                                                                                                  |            |           |
| - TFCI existence                           |           | TRUE                                                                                                                                                             |            | RCS1-1060 |
| - Midamble shift and                       |           |                                                                                                                                                                  |            | RCS1-1061 |
| burst type                                 |           |                                                                                                                                                                  |            |           |
| - CHOICE TDD option                        |           | 1.28 Mcps TDD                                                                                                                                                    |            | RCS1-1062 |
| -Midamble                                  |           | Default                                                                                                                                                          |            | RCS1-1063 |
| Allocation Mode                            |           |                                                                                                                                                                  |            |           |
| - Midamble                                 |           | 8 (k=16)                                                                                                                                                         |            | RCS1-1064 |
| configuration                              |           |                                                                                                                                                                  |            |           |
| - Midamble Shift                           |           | Not present                                                                                                                                                      |            | RCS1-1065 |
| - CHOICE TDD option                        |           | 1.28 Mcps TDD                                                                                                                                                    |            | RCS1-1066 |
| - Modulation                               |           | QPSK                                                                                                                                                             |            | RCS1-1067 |
| - SS-TPC Symbols                           |           | 1                                                                                                                                                                |            | RCS1-1068 |
| - Additional TPC-SS                        |           | Not present                                                                                                                                                      |            | RCS1-1069 |
| Symbols                                    |           |                                                                                                                                                                  |            |           |
| - First timeslot                           |           |                                                                                                                                                                  |            | RCS1-1070 |
| channelisation codes                       |           |                                                                                                                                                                  |            |           |

| Information Element                           | Condition | Value/remark                                                                                                                                                     | Version            | Index     |
|-----------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------|
| representation                                |           | Consecutive codes                                                                                                                                                |                    | RCS1-1071 |
| - CHOICE codes                                |           | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.                                                 |                    | RCS1-1072 |
| - First channelisation code                   |           | (j/SF) where j is the highest numbered code that is being assigned in the slot.                                                                                  |                    | RCS1-1073 |
| - Last channelisation code                    |           | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. |                    | RCS1-1074 |
| - CHOICE more timeslots                       |           |                                                                                                                                                                  |                    |           |
| - UL CCTrCH TPC List                          |           | 1                                                                                                                                                                |                    | RCS1-1075 |
| - UL TPC TFCS Identity                        |           | Not present                                                                                                                                                      |                    | RCS1-1076 |
| - DL CCTrCH List to Remove                    |           | Not Present                                                                                                                                                      |                    | RCS1-1077 |
| -SCCPCH information for                       |           |                                                                                                                                                                  | R99 and Rel-4 only | RCS1-1078 |
| FACH                                          |           |                                                                                                                                                                  |                    |           |
| -E-AGCH info                                  |           |                                                                                                                                                                  |                    | RCS1-1079 |
| - CHOICE mode                                 |           |                                                                                                                                                                  |                    | RCS1-1080 |
| -CHOICE TDD option                            |           | 1.28 Mcps TDD                                                                                                                                                    | Rel-7              | RCS1-1081 |
| -RDI Indicator                                |           | False                                                                                                                                                            | Rel-7              | RCS1-1082 |
| -TPC step size                                |           | 1                                                                                                                                                                | Rel-7              | RCS1-1083 |
| -E-AGCH set configuration                     |           | 1                                                                                                                                                                | Rel-7              | RCS1-1084 |
| -Timeslot number                              |           | 6                                                                                                                                                                | Rel-7              | RCS1-1085 |
| -First Channelisation code                    |           | 16/13                                                                                                                                                            | Rel-7              | RCS1-1086 |
| -Second Channelisation code                   |           | 16/14                                                                                                                                                            | Rel-7              | RCS1-1087 |
| -Midamble Allocation mode                     |           | Default midamble                                                                                                                                                 | Rel-7              | RCS1-1088 |
| -Midamble configuration                       |           | 8 (k=16)                                                                                                                                                         | Rel-7              | RCS1-1089 |
| - Midamble Shift                              |           | Not present                                                                                                                                                      | Rel-7              | RCS1-1090 |
| - E-AGCH BLER target                          |           | -2                                                                                                                                                               | Rel-7              | RCS1-1091 |
| -CHOICE mode                                  |           | TDD                                                                                                                                                              | Rel-7              | RCS1-1092 |
| -E-HICH Information                           |           |                                                                                                                                                                  | Rel-7              | RCS1-1093 |
| -CHOICE TDD option                            |           | 1.28 Mcps TDD                                                                                                                                                    | Rel-7              | RCS1-1094 |
| - NE-HICH                                     |           | 4                                                                                                                                                                | Rel-7              | RCS1-1095 |
| -E-HICH set configuration                     |           | 1                                                                                                                                                                | Rel-7              | RCS1-1096 |
| -EI                                           |           | 0                                                                                                                                                                | Rel-7              | RCS1-1097 |
| -Timeslot number                              |           | 6                                                                                                                                                                | Rel-7              | RCS1-1098 |
| -Channelisation code                          |           | 16/15                                                                                                                                                            | Rel-7              | RCS1-1099 |
| -Midamble Allocation mode                     |           | Default midamble                                                                                                                                                 | Rel-7              | RCS1-1100 |
| -Midamble configuration                       |           | 8 (k=16)                                                                                                                                                         | Rel-7              | RCS1-1101 |
| -Midamble Shift                               |           | Not present                                                                                                                                                      | Rel-7              | RCS1-1102 |
| Downlink information for each radio link list | A5        | Not present                                                                                                                                                      | Rel-8              | RCS1-1103 |

| Condition                                                     | Explanation                                                                                               | Version |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------|
| A1                                                            | This IE is needed for "Stand-alone SRBs mapped on DCH/DCH"                                                |         |
| A2                                                            | This IE is needed for "Stand-alone SRBs mapped on E-DCH and HS-DSCH "                                     | Rel-6   |
| A3                                                            | This IE is needed for "Stand-alone SRBs mapped on E-DCH and HS-DSCH using MAC-ehs"                        | Rel-7   |
| A4                                                            | This IE is needed for "Stand-alone SRBs mapped on E-DCH using MAC-i/is and HS-DSCH using MAC-ehs"         | Rel-8   |
| A5                                                            | This IE is needed for SRB mapped onto common E-DCH (MAC-i/is) and HS-DSCH (MAC-ehs) in Enhanced CELL_FACH | Rel-8   |
| UTRAN to E-UTRA                                               | This IE is needed for UTRAN to E-UTRA test cases                                                          | Rel-8   |
| NOTE: If not specified, then A1 will be the default condition |                                                                                                           |         |

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_DCH) (7.68 Mcps TDD option)

| Information Element        | Value/remark                                                                                           | Version | Index    |
|----------------------------|--------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type               |                                                                                                        |         | RCS7-001 |
| Initial UE identity        | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST message |         | RCS7-002 |
| RRC transaction identifier | 0                                                                                                      |         | RCS7-003 |
| Activation time            | Not Present(Now)                                                                                       |         | RCS7-004 |
| New U-RNTI                 |                                                                                                        |         | RCS7-005 |

| Information Element                                  | Value/remark                                                           | Version                 | Index    |
|------------------------------------------------------|------------------------------------------------------------------------|-------------------------|----------|
| - SRNC identity                                      | 0000 0000 0001B                                                        | Rel-6<br>Rel-7<br>Rel-7 | RCS7-006 |
| - S-RNTI                                             | 0000 0000 0000 0000 0001B                                              |                         | RCS7-007 |
| New C-RNTI                                           | 0000 0000 0000 0001B                                                   |                         | RCS7-008 |
| New H-RNTI                                           | Not Present                                                            |                         | RCS7-009 |
| CHOICE mode                                          | TDD                                                                    |                         | RCS7-010 |
| - New E-RNTI                                         | Not Present                                                            |                         | RCS7-011 |
| RRC State Indicator                                  | CELL_DCH                                                               |                         | RCS7-012 |
| UTRAN DRX cycle length coefficient                   | 9                                                                      |                         | RCS7-013 |
| Capability update requirement                        |                                                                        |                         | RCS7-014 |
| - UE radio access FDD capability update requirement  | FALSE                                                                  |                         | RCS7-015 |
| - UE radio access TDD capability update requirement  | TRUE                                                                   |                         | RCS7-016 |
| - System specific capability update requirement list | GSM                                                                    | Rel-5<br>Rel-5          | RCS7-017 |
| CHOICE <i>specification mode</i>                     | Complete specification                                                 |                         | RCS7-018 |
| - Complete specification                             |                                                                        |                         | RCS7-019 |
| - Signalling RB information to setup                 | (UM DCCH for RRC)                                                      |                         | RCS7-020 |
| - RB identity                                        | Not Present                                                            |                         | RCS7-021 |
| - CHOICE RLC info type                               |                                                                        |                         | RCS7-022 |
| - RLC info                                           |                                                                        |                         | RCS7-023 |
| - CHOICE Uplink RLC mode                             | UM RLC                                                                 |                         | RCS7-024 |
| - Transmission RLC discard                           | Not Present                                                            |                         | RCS7-025 |
|                                                      |                                                                        |                         | RCS7-026 |
|                                                      |                                                                        |                         | RCS7-027 |
| - CHOICE Downlink RLC mode                           | UM RLC                                                                 |                         | RCS7-028 |
| - RB mapping info                                    |                                                                        |                         | RCS7-029 |
| - Information for each multiplexing option           | 2 RBMuxOptions                                                         |                         | RCS7-030 |
| - RLC logical channel mapping indicator              | Not Present                                                            |                         | RCS7-031 |
| - Number of RLC logical channels                     | 1                                                                      |                         | RCS7-032 |
| - Uplink transport channel type                      | DCH                                                                    |                         | RCS7-033 |
| - UL Transport channel identity                      | 5                                                                      |                         | RCS7-034 |
| - Logical channel identity                           | 1                                                                      |                         | RCS7-035 |
| - CHOICE RLC size list                               | Configured                                                             |                         | RCS7-036 |
| - MAC logical channel priority                       | 1                                                                      |                         | RCS7-037 |
| - Downlink RLC logical channel info                  |                                                                        |                         | RCS7-038 |
| - Number of RLC logical channels                     | 1                                                                      |                         | RCS7-039 |
| - Downlink transport channel type                    | DCH                                                                    |                         | RCS7-040 |
| - DL DCH Transport channel identity                  | 10                                                                     |                         | RCS7-041 |
| - DL DSCH Transport channel identity                 | Not Present                                                            |                         | RCS7-042 |
| - Logical channel identity                           | 1                                                                      |                         | RCS7-043 |
| - RLC logical channel mapping indicator              | Not Present                                                            |                         | RCS7-044 |
| - Number of RLC logical channels                     | 1                                                                      |                         | RCS7-045 |
| - Uplink transport channel type                      | RACH                                                                   |                         | RCS7-046 |
| - UL Transport channel identity                      | Not Present                                                            |                         | RCS7-047 |
| - Logical channel identity                           | 1                                                                      |                         | RCS7-048 |
| - CHOICE RLC size list                               | Explicit List                                                          |                         | RCS7-049 |
| - RLC size index                                     | According to clause 6 for standalone 13.6 kbps signalling radio bearer |                         | RCS7-050 |
| - MAC logical channel priority                       | 1                                                                      |                         | RCS7-051 |
| - Downlink RLC logical channel info                  |                                                                        |                         | RCS7-052 |
| - Number of RLC logical channels                     | 1                                                                      |                         | RCS7-053 |
| - Downlink transport channel type                    | FACH                                                                   |                         | RCS7-054 |
| - DL DCH Transport channel identity                  | Not Present                                                            |                         | RCS7-055 |
| - DL DSCH Transport channel identity                 | Not Present                                                            |                         | RCS7-056 |
| - Logical channel identity                           | 1                                                                      |                         | RCS7-057 |
| - Signalling RB information to setup                 | (AM DCCH for RRC)                                                      |                         | RCS7-058 |
| - RB identity                                        | Not Present                                                            |                         | RCS7-059 |
| - CHOICE RLC info type                               |                                                                        |                         | RCS7-060 |
| - RLC info                                           |                                                                        |                         | RCS7-061 |

| Information Element                        | Value/remark                                                           | Version | Index    |
|--------------------------------------------|------------------------------------------------------------------------|---------|----------|
| - CHOICE Uplink RLC mode                   | AM RLC                                                                 |         | RCS7-062 |
| - Transmission RLC discard                 |                                                                        |         | RCS7-063 |
| - SDU discard mode                         | No Discard                                                             |         | RCS7-064 |
| - MAX_DAT                                  | 15                                                                     |         | RCS7-065 |
|                                            |                                                                        |         | RCS7-066 |
| - Transmission window size                 | 128                                                                    |         | RCS7-067 |
| - Timer_RST                                | 500                                                                    |         | RCS7-068 |
| - Max_RST                                  | 1                                                                      |         | RCS7-069 |
| - Polling info                             |                                                                        |         | RCS7-070 |
| - Timer_poll_prohibit                      | 200                                                                    |         | RCS7-071 |
| - Timer_poll                               | 200                                                                    |         | RCS7-072 |
| - Poll_PDU                                 | Not present                                                            |         | RCS7-073 |
|                                            |                                                                        |         | RCS7-074 |
| - Poll_SDU                                 | 1                                                                      |         | RCS7-075 |
| - Last transmission PDU poll               | TRUE                                                                   |         | RCS7-076 |
| - Last retransmission PDU poll             | TRUE                                                                   |         | RCS7-077 |
| - Poll_Window                              | 99                                                                     |         | RCS7-078 |
| - Timer_poll_periodic                      | Not Present                                                            |         | RCS7-079 |
| - CHOICE Downlink RLC mode                 | AM RLC                                                                 |         | RCS7-080 |
| - In-sequence delivery                     | TRUE                                                                   |         | RCS7-081 |
| - Receiving window size                    | 128                                                                    |         | RCS7-082 |
| - Downlink RLC status info                 |                                                                        |         | RCS7-083 |
| - Timer_status_prohibit                    | 200                                                                    |         | RCS7-084 |
| - Timer_EPC                                | Not Present                                                            |         | RCS7-085 |
| - Missing PDU indicator                    | TRUE                                                                   |         | RCS7-086 |
| - Timer_STATUS_periodic                    | Not Present                                                            |         | RCS7-087 |
| - RB mapping info                          |                                                                        |         | RCS7-088 |
| - Information for each multiplexing option | 2 RBMuxOptions                                                         |         | RCS7-089 |
| - RLC logical channel mapping indicator    | Not Present                                                            |         | RCS7-090 |
| - Number of RLC logical channels           | 1                                                                      |         | RCS7-091 |
| - Uplink transport channel type            | DCH                                                                    |         | RCS7-092 |
| - UL Transport channel identity            | 5                                                                      |         | RCS7-093 |
| - Logical channel identity                 | 2                                                                      |         | RCS7-094 |
| - CHOICE RLC size list                     | Configure                                                              |         | RCS7-095 |
| - MAC logical channel priority             | 2                                                                      |         | RCS7-096 |
| - Downlink RLC logical channel info        |                                                                        |         | RCS7-097 |
| - Number of RLC logical channels           | 1                                                                      |         | RCS7-098 |
| - Downlink transport channel type          | DCH                                                                    |         | RCS7-099 |
| - DL DCH Transport channel identity        | 10                                                                     |         | RCS7-100 |
| - DL DSCH Transport channel identity       | Not Present                                                            |         | RCS7-101 |
| - Logical channel identity                 | 2                                                                      |         | RCS7-102 |
| - RLC logical channel mapping indicator    | Not Present                                                            |         | RCS7-103 |
| - Number of RLC logical channels           | 1                                                                      |         | RCS7-104 |
| - Uplink transport channel type            | RACH                                                                   |         | RCS7-105 |
| - UL Transport channel identity            | Not Present                                                            |         | RCS7-106 |
| - Logical channel identity                 | 2                                                                      |         | RCS7-107 |
| - CHOICE RLC size list                     | Explicit List                                                          |         | RCS7-108 |
| - RLC size index                           | According to clause 6 for standalone 13.6 kbps signalling radio bearer |         | RCS7-109 |
| - MAC logical channel priority             | 2                                                                      |         | RCS7-110 |
| - Downlink RLC logical channel info        |                                                                        |         | RCS7-111 |
| - Number of RLC logical channels           | 1                                                                      |         | RCS7-112 |
| - Downlink transport channel type          | FACH                                                                   |         | RCS7-113 |
| - DL DCH Transport channel identity        | Not Present                                                            |         | RCS7-114 |
| - DL DSCH Transport channel identity       | Not Present                                                            |         | RCS7-115 |
| - Logical channel identity                 | 2                                                                      |         | RCS7-116 |
| Signalling RB information to setup         | (AM DCCH for NAS_DT High priority)                                     |         | RCS7-117 |
| - RB identity                              | Not Present                                                            |         | RCS7-118 |
| - CHOICE RLC info type                     |                                                                        |         | RCS7-119 |
| - RLC info                                 |                                                                        |         | RCS7-120 |

| Information Element                        | Value/remark                                                           | Version | Index    |
|--------------------------------------------|------------------------------------------------------------------------|---------|----------|
| - CHOICE Uplink RLC mode                   | AM RLC                                                                 |         | RCS7-121 |
| - Transmission RLC discard                 |                                                                        |         | RCS7-122 |
| - SDU discard mode                         | No Discard                                                             |         | RCS7-123 |
| - MAX_DAT                                  | 15                                                                     |         | RCS7-124 |
|                                            |                                                                        |         | RCS7-125 |
| - Transmission window size                 | 128                                                                    |         | RCS7-126 |
| - Timer_RST                                | 500                                                                    |         | RCS7-127 |
| - Max_RST                                  | 1                                                                      |         | RCS7-128 |
| - Polling info                             |                                                                        |         | RCS7-129 |
| - Timer_poll_prohibit                      | 200                                                                    |         | RCS7-130 |
| - Timer_poll                               | 200                                                                    |         | RCS7-131 |
| - Poll_PDU                                 | Not present                                                            |         | RCS7-132 |
|                                            |                                                                        |         | RCS7-133 |
| - Poll_SDU                                 | 1                                                                      |         | RCS7-134 |
| - Last transmission PDU poll               | TRUE                                                                   |         | RCS7-135 |
| - Last retransmission PDU poll             | TRUE                                                                   |         | RCS7-136 |
| - Poll_Windows                             | 99                                                                     |         | RCS7-137 |
| - Timer_poll_periodic                      | Not Present                                                            |         | RCS7-138 |
| - CHOICE Downlink RLC mode                 | AM RLC                                                                 |         | RCS7-139 |
| - In-sequence delivery                     | TRUE                                                                   |         | RCS7-140 |
| - Receiving window size                    | 128                                                                    |         | RCS7-141 |
| - Downlink RLC status info                 |                                                                        |         | RCS7-142 |
| - Timer_status_prohibit                    | 200                                                                    |         | RCS7-143 |
| - Timer_EPC                                | Not Present                                                            |         | RCS7-144 |
| - Missing PDU indicator                    | TRUE                                                                   |         | RCS7-145 |
| - Timer_STATUS_periodic                    | Not Present                                                            |         | RCS7-146 |
| - RB mapping info                          |                                                                        |         | RCS7-147 |
| - Information for each multiplexing option | 2 RBMuxOptions                                                         |         | RCS7-148 |
| - RLC logical channel mapping indicator    | Not Present                                                            |         | RCS7-149 |
| - Number of RLC logical channels           | 1                                                                      |         | RCS7-150 |
| - Uplink transport channel type            | DCH                                                                    |         | RCS7-151 |
| - UL Transport channel identity            | 5                                                                      |         | RCS7-152 |
| - Logical channel identity                 | 3                                                                      |         | RCS7-153 |
| - CHOICE RLC size list                     | Configured                                                             |         | RCS7-154 |
| - MAC logical channel priority             | 3                                                                      |         | RCS7-155 |
| - Downlink RLC logical channel info        |                                                                        |         | RCS7-156 |
| - Number of RLC logical channels           | 1                                                                      |         | RCS7-157 |
| - Downlink transport channel type          | DCH                                                                    |         | RCS7-158 |
| - DL DCH Transport channel identity        | 10                                                                     |         | RCS7-159 |
| - DL DSCH Transport channel identity       | Not Present                                                            |         | RCS7-160 |
| - Logical channel identity                 | 3                                                                      |         | RCS7-161 |
| - RLC logical channel mapping indicator    | Not Present                                                            |         | RCS7-162 |
| - Number of RLC logical channels           | 1                                                                      |         | RCS7-163 |
| - Uplink transport channel type            | RACH                                                                   |         | RCS7-164 |
| - UL Transport channel identity            | Not Present                                                            |         | RCS7-165 |
| - Logical channel identity                 | 3                                                                      |         | RCS7-166 |
| - CHOICE RLC size list                     | Explicit List                                                          |         | RCS7-167 |
| - RLC size index                           | According to clause 6 for standalone 13.6 kbps signalling radio bearer |         | RCS7-168 |
| - MAC logical channel priority             | 3                                                                      |         | RCS7-169 |
| - Downlink RLC logical channel info        |                                                                        |         | RCS7-170 |
| - Number of RLC logical channels           | 1                                                                      |         | RCS7-171 |
| - Downlink transport channel type          | FACH                                                                   |         | RCS7-172 |
| - DL DCH Transport channel identity        | Not Present                                                            |         | RCS7-173 |
| - DL DSCH Transport channel identity       | Not Present                                                            |         | RCS7-174 |
| - Logical channel identity                 | 3                                                                      |         | RCS7-175 |
| - Signalling RB information to setup       | (AM DCCH for NAS_DT Low priority)                                      |         | RCS7-176 |
| - RB identity                              | Not Present                                                            |         | RCS7-177 |
| - CHOICE RLC info type                     |                                                                        |         | RCS7-178 |
| - RLC info                                 |                                                                        |         | RCS7-179 |



| Information Element                                         | Value/remark                                                           | Version | Index    |
|-------------------------------------------------------------|------------------------------------------------------------------------|---------|----------|
| - CHOICE Uplink RLC mode                                    | AM RLC                                                                 |         | RCS7-180 |
| - Transmission RLC discard                                  | No discard                                                             |         | RCS7-181 |
| - SDU discard mode                                          | 15                                                                     |         | RCS7-182 |
| - MAX_DAT                                                   |                                                                        |         | RCS7-183 |
|                                                             |                                                                        |         | RCS7-184 |
|                                                             |                                                                        |         | RCS7-185 |
| - Transmission window size                                  | 128                                                                    |         | RCS7-186 |
| - Timer_RST                                                 | 500                                                                    |         | RCS7-187 |
| - Max_RST                                                   | 1                                                                      |         | RCS7-188 |
| - Polling info                                              |                                                                        |         | RCS7-189 |
| - Timer_poll_prohibit                                       | 200                                                                    |         | RCS7-190 |
| - Timer_poll                                                | 200                                                                    |         | RCS7-191 |
| - Poll_PDU                                                  | Not present                                                            |         | RCS7-192 |
| - Poll_SDU                                                  | 1                                                                      |         | RCS7-193 |
| - Last transmission PDU poll                                | TRUE                                                                   |         | RCS7-194 |
| - Last retransmission PDU poll                              | TRUE                                                                   |         | RCS7-195 |
| - Poll_Windows                                              | 99                                                                     |         | RCS7-196 |
| - Timer_poll_periodic                                       | Not Present                                                            |         | RCS7-197 |
| - CHOICE Downlink RLC mode                                  | AM RLC                                                                 |         | RCS7-198 |
| - In-sequence delivery                                      | TRUE                                                                   |         | RCS7-199 |
| - Receiving window size                                     | 128                                                                    |         | RCS7-200 |
| - Downlink RLC status info                                  |                                                                        |         | RCS7-201 |
| - Timer_status_prohibit                                     | 200                                                                    |         | RCS7-202 |
| - Timer_EPC                                                 | Not Present                                                            |         | RCS7-203 |
| - Missing PDU indicator                                     | TRUE                                                                   |         | RCS7-204 |
| - Timer_STATUS_periodic                                     | Not Present                                                            |         | RCS7-205 |
| - RB mapping info                                           |                                                                        |         | RCS7-206 |
| - Information for each multiplexing option                  | 2 RBMuxOptions                                                         |         | RCS7-207 |
| - RLC logical channel mapping indicator                     | Not Present                                                            |         | RCS7-208 |
| - Number of RLC logical channels                            | 1                                                                      |         | RCS7-209 |
| - Uplink transport channel type                             | DCH                                                                    |         | RCS7-210 |
| - UL Transport channel identity                             | 5                                                                      |         | RCS7-211 |
| - Logical channel identity                                  | 4                                                                      |         | RCS7-212 |
| - CHOICE RLC size list                                      | Configured                                                             |         | RCS7-213 |
| - MAC logical channel priority                              | 4                                                                      |         | RCS7-214 |
| - Downlink RLC logical channel info                         |                                                                        |         | RCS7-215 |
| - Number of RLC logical channels                            | 1                                                                      |         | RCS7-216 |
| - Downlink transport channel type                           | DCH                                                                    |         | RCS7-217 |
| - DL DCH Transport channel identity                         | 10                                                                     |         | RCS7-218 |
| - DL DSCH Transport channel identity                        | Not Present                                                            |         | RCS7-219 |
| - Logical channel identity                                  | 4                                                                      |         | RCS7-220 |
| - RLC logical channel mapping indicator                     | Not Present                                                            |         | RCS7-221 |
| - Number of RLC logical channels                            | 1                                                                      |         | RCS7-222 |
| - Uplink transport channel type                             | RACH                                                                   |         | RCS7-223 |
| - UL Transport channel identity                             | Not Present                                                            |         | RCS7-224 |
| - Logical channel identity                                  | 4                                                                      |         | RCS7-225 |
| - CHOICE RLC size list                                      | Explicit List                                                          |         | RCS7-226 |
| - RLC size index                                            | According to clause 6 for standalone 13.6 kbps signalling radio bearer |         | RCS7-227 |
| - MAC logical channel priority                              | 4                                                                      |         | RCS7-228 |
| - Downlink RLC logical channel info                         |                                                                        |         | RCS7-229 |
| - Number of RLC logical channels                            | 1                                                                      |         | RCS7-230 |
| - Downlink transport channel type                           | FACH                                                                   |         | RCS7-231 |
| - DL DCH Transport channel identity                         | Not Present                                                            |         | RCS7-232 |
| - DL DSCH Transport channel identity                        | Not Present                                                            |         | RCS7-233 |
| - Logical channel identity                                  | 4                                                                      |         | RCS7-234 |
| UL Transport channel information for all transport channels |                                                                        |         | RCS7-235 |
| - PRACH TFCS                                                | Not Present                                                            |         | RCS7-236 |
| - CHOICE mode                                               | TDD                                                                    |         | RCS7-237 |

| Information Element                                               | Value/remark                                                                                                                                        | Version | Index    |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| - Individual UL CCTrCH information                                | (This IE is repeated for TFC number.)                                                                                                               |         | RCS7-238 |
| - UL TFCS ID                                                      |                                                                                                                                                     |         | RCS7-239 |
| - UL TFCS                                                         |                                                                                                                                                     |         | RCS7-240 |
| - TFC subset                                                      |                                                                                                                                                     |         | RCS7-241 |
| - Allowed Transport Format combination                            | Default value is the complete existing set of transport format combinations<br>0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) |         | RCS7-242 |
| - PRACH TFCS                                                      | (This IE is repeated for TFC number.)                                                                                                               |         | RCS7-243 |
| - CHOICE TFCI signalling                                          | Normal                                                                                                                                              |         | RCS7-244 |
| - TFCI Field 1 information                                        |                                                                                                                                                     |         | RCS7-245 |
| - TFCS complete reconfigure information                           |                                                                                                                                                     |         | RCS7-246 |
| - CHOICE TFCS Size                                                | Number of used bits must be enough to cover all combinations of CTFC from clauses 6.<br>Refer to clause 6 Parameter Set                             |         | RCS7-247 |
| - CTFC information                                                | Not Present                                                                                                                                         |         | RCS7-248 |
| - CHOICE mode                                                     | TDD                                                                                                                                                 |         | RCS7-249 |
| - Individual UL CCTrCH information                                | Not Present                                                                                                                                         |         | RCS7-250 |
| Deleted TrCH information list                                     | Not Present                                                                                                                                         |         | RCS7-251 |
| Added or Reconfigured UL TrCH information                         |                                                                                                                                                     |         | RCS7-252 |
| - Uplink transport channel type                                   | DCH                                                                                                                                                 |         | RCS7-253 |
| - UL Transport channel identity                                   | 5                                                                                                                                                   |         | RCS7-254 |
| - TFS                                                             |                                                                                                                                                     |         | RCS7-255 |
| - CHOICE Transport channel type                                   | Dedicated transport channels                                                                                                                        |         | RCS7-256 |
| - Dynamic Transport format information                            |                                                                                                                                                     |         | RCS7-257 |
| - RLC size                                                        | According to clause 6 for standalone 13.6 kbps signalling radio bearer                                                                              |         | RCS7-258 |
| - Number of TBs and TTI lists                                     | (This IE is repeated for TFI number)                                                                                                                |         | RCS7-259 |
| - CHOICE mode                                                     | TDD                                                                                                                                                 |         | RCS7-260 |
| - Transmission Time Interval                                      | According to clause 6 for standalone 13.6 kbps signalling radio bearer                                                                              |         | RCS7-261 |
| - CHOICE Logical channel list                                     | All                                                                                                                                                 |         | RCS7-262 |
| - Semi-static Transport Format information                        |                                                                                                                                                     |         | RCS7-263 |
| DL Transport channel information common for all transport channel |                                                                                                                                                     |         | RCS7-264 |
| - SCCPCH TFCS                                                     | Not Present                                                                                                                                         |         | RCS7-265 |
| - CHOICE mode                                                     | TDD                                                                                                                                                 |         | RCS7-266 |
| - Individual DL CCTrCH information                                |                                                                                                                                                     |         | RCS7-267 |
| - DL TFCS Identity                                                |                                                                                                                                                     |         | RCS7-268 |
| - TFCS ID                                                         | 1                                                                                                                                                   |         | RCS7-269 |
| - Shared Channel Indicator                                        |                                                                                                                                                     |         | RCS7-270 |
| - CHOICE DL parameters                                            | Same as UL                                                                                                                                          |         | RCS7-271 |
| Added or Reconfigured TrCH information list                       |                                                                                                                                                     |         | RCS7-272 |
| - Added or Reconfigured DL TrCH information                       |                                                                                                                                                     |         | RCS7-273 |
| - Downlink transport channel type                                 | DCH                                                                                                                                                 |         | RCS7-274 |
| - DL Transport channel identity                                   | 10                                                                                                                                                  |         | RCS7-275 |
| - CHOICE DL parameters                                            | Same as UL                                                                                                                                          |         | RCS7-276 |
| - Uplink transport channel type                                   | DCH                                                                                                                                                 |         | RCS7-277 |
| - UL Transport channel identity                                   | 5                                                                                                                                                   |         | RCS7-278 |
| - DCH quality target                                              |                                                                                                                                                     |         | RCS7-279 |
| - BLER Quality value                                              | -63 (-6.3)                                                                                                                                          |         | RCS7-280 |
| Frequency info                                                    | Not Present                                                                                                                                         |         | RCS7-281 |
| DTX-DRX timing information                                        | Not Present                                                                                                                                         | Rel-7   | RCS7-282 |
| DTX-DRX information                                               | Not Present                                                                                                                                         | Rel-7   | RCS7-283 |
| HS-SCCH less information                                          | Not Present                                                                                                                                         | Rel-7   | RCS7-284 |
| MIMO parameters                                                   | Not Present                                                                                                                                         | Rel-7   | RCS7-285 |
| Maximum allowed UL TX power                                       | Not Present                                                                                                                                         |         | RCS7-286 |
| Uplink DPCH info                                                  |                                                                                                                                                     | Rel-6   | RCS7-287 |
| - Uplink DPCH power control info                                  |                                                                                                                                                     |         | RCS7-288 |
| - CHOICE mode                                                     | TDD                                                                                                                                                 |         | RCS7-289 |

| Information Element                             | Value/remark                                          | Version            | Index    |
|-------------------------------------------------|-------------------------------------------------------|--------------------|----------|
| - CHOICE <i>TDD option</i>                      | 7.68 Mcps                                             | Rel-7              | RCS7-290 |
| - UL target SIR                                 | Reference to clause 6.11 Parameter set                |                    | RCS7-291 |
| - CHOICE mode                                   | TDD                                                   |                    | RCS7-292 |
| - CHOICE <i>UL OL PC info</i>                   | Individually signalled                                |                    | RCS7-293 |
| - CHOICE <i>TDD option</i>                      | 7.68 Mcps                                             | Rel-7              | RCS7-294 |
| - Individual timeslot interference              | Not Present                                           |                    | RCS7-295 |
| info                                            |                                                       |                    |          |
| - Individual timeslot interference              |                                                       |                    | RCS7-296 |
| - DPCH Constant Value                           |                                                       |                    | RCS7-297 |
| - Primary CCPCH Tx Power                        | Not Present                                           |                    | RCS7-298 |
| - Time info                                     |                                                       |                    | RCS7-299 |
| - Activation time                               | (256+CFN-(CFN MOD 8 + 8))MOD 256                      |                    | RCS7-300 |
| - Duration                                      | Infinite                                              |                    | RCS7-301 |
| - Common timeslot info                          |                                                       |                    | RCS7-302 |
| - 2 <sup>nd</sup> interleaving mode             | Reference to clause 6.11 Parameter Set                |                    | RCS7-303 |
| - TFCI coding                                   | Reference to clause 6.11 Parameter Set                |                    | RCS7-304 |
| - Puncturing Limit                              | Reference to clause 6.11 Parameter Set                |                    | RCS7-305 |
| - Repetition Period                             | Reference to clause 6.11 Parameter Set                |                    | RCS7-306 |
| - Repetition Length                             | Reference to clause 6.11 Parameter Set                |                    | RCS7-307 |
| - CHOICE TDD Option                             | 7.68 Mcps                                             | Rel-7              | RCS7-308 |
| - Uplink DPCH timeslots and codes VHCR          | Default is to use the old timeslots and codes         | Rel-7              | RCS7-309 |
| - CPCH SET Info                                 | (no data)                                             | R99 and Rel-4 only | RCS7-310 |
| E-DCH info                                      | Not Present                                           | Rel-6              | RCS7-311 |
| Downlink HS-PDSCH Information                   | Not Present                                           | Rel-6              | RCS7-312 |
| Downlink information common for all radio links |                                                       |                    | RCS7-313 |
| - Downlink DPCH info common for all             |                                                       |                    | RCS7-314 |
| RL                                              |                                                       |                    |          |
| - Timing indicator                              | Maintain                                              |                    | RCS7-315 |
| - CFN-targetSFN frame offset                    | Not Present                                           |                    | RCS7-316 |
| - Downlink DPCH power control                   |                                                       |                    | RCS7-317 |
| information                                     |                                                       |                    |          |
| - DPC mode                                      | 0 (single)                                            |                    | RCS7-318 |
| - CHOICE mode                                   | TDD                                                   |                    | RCS7-319 |
| - CHOICE TDD option                             | 7.68 Mcps (no data)                                   | Rel-7              | RCS7-320 |
| - Default DPCH Offset Value                     | Not Present                                           |                    | RCS7-321 |
| Downlink information for each radio link list   |                                                       |                    | RCS7-322 |
| - Downlink information for each radio link      |                                                       |                    | RCS7-323 |
| - CHOICE mode                                   | TDD                                                   |                    | RCS7-324 |
| - Primary CCPCH info                            |                                                       |                    | RCS7-325 |
| - CHOICE mode                                   | TDD                                                   |                    | RCS7-326 |
| - CHOICE TDD option                             | 7.68 Mcps                                             | Rel-7              | RCS7-327 |
| - CHOICE <i>SyncCase</i>                        | Sync Case 1                                           |                    | RCS7-328 |
| - Timeslot                                      | PCCPCH timeslot                                       |                    | RCS7-329 |
| - Cell parameters ID                            | 0                                                     |                    | RCS7-330 |
| - SCTD indicator                                |                                                       |                    | RCS7-331 |
| - CHOICE DPCH info                              | Downlink DPCH info for each RL                        | Rel-6              | RCS7-332 |
| - Downlink DPCH info for each RL                |                                                       |                    | RCS7-333 |
| - CHOICE mode                                   | 7.68Mcps TDD                                          | Rel-7              | RCS7-334 |
| - DL CCTrCH List                                |                                                       |                    | RCS7-335 |
| - TFCS ID                                       | 1                                                     |                    | RCS7-336 |
| - Time info                                     |                                                       |                    | RCS7-337 |
| - Activation time                               | (256+CFN-(CFN mod 8 + 8))mod 256                      |                    | RCS7-338 |
| - Duration                                      | infinite                                              |                    | RCS7-339 |
| - Common timeslot info                          |                                                       |                    | RCS7-340 |
| - 2 <sup>nd</sup> interleaving mode             | Reference to the present document                     |                    | RCS7-341 |
| - TFCI coding                                   | TRUE                                                  |                    | RCS7-342 |
| - Puncturing limit                              | Reference to clause 6 Parameter set                   |                    | RCS7-343 |
| - Repetition period                             | 1                                                     |                    | RCS7-344 |
| - Repetition length                             | Empty                                                 |                    | RCS7-345 |
| - Downlink DPCH timeslots and codes VHCR        |                                                       | Rel-7              | RCS7-346 |
| - CHOICE <i>more timeslots</i>                  |                                                       |                    | RCS7-347 |
| - CHOICE TDD option                             | 7.68 Mcps                                             | Rel-7              | RCS7-348 |
| - Timeslot number                               | The number of a downlink timeslot that has unassigned |                    | RCS7-349 |

| Information Element              | Value/remark                                                                                                                                                     | Version | Index    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| burst type                       | codes in a frame.                                                                                                                                                | Rel-7   | RCS7-350 |
|                                  | TRUE                                                                                                                                                             |         | RCS7-351 |
|                                  |                                                                                                                                                                  |         | RCS7-352 |
| Allocation Mode                  | 7.68 Mcps                                                                                                                                                        |         | RCS7-353 |
|                                  |                                                                                                                                                                  |         | RCS7-354 |
|                                  | Default                                                                                                                                                          |         | RCS7-355 |
| configuration burst type 1 and 3 |                                                                                                                                                                  |         | RCS7-356 |
|                                  | 8                                                                                                                                                                |         | RCS7-357 |
|                                  |                                                                                                                                                                  |         | RCS7-358 |
| channelisation codes VHCR        | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.                                                 |         | RCS7-359 |
|                                  | (j/SF) where j is the highest numbered code that is being assigned in the slot.                                                                                  |         | RCS7-360 |
|                                  | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. |         | RCS7-361 |
| - UL CCTrCH TPC List             | Not Present                                                                                                                                                      | Rel-7   | RCS7-362 |
|                                  | Not Present                                                                                                                                                      | Rel-7   | RCS7-363 |
|                                  | Not Present                                                                                                                                                      | Rel-7   | RCS7-364 |
| - E-AGCH Info                    | TDD                                                                                                                                                              | Rel-7   | RCS7-365 |
|                                  | Not Present                                                                                                                                                      | Rel-7   | RCS7-366 |
|                                  |                                                                                                                                                                  |         |          |

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_FACH) (3.84 Mcps TDD)

| Information Element                                           | Value/remark                                                                                            | Version | Index    |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                                                  |                                                                                                         |         | RCS3-001 |
| Initial UE identity                                           | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message |         | RCS3-002 |
| RRC transaction identifier                                    | Arbitrarily selects an integer between 0 and 3                                                          |         | RCS3-003 |
| Activation time                                               | Not Present(Now)                                                                                        |         | RCS3-004 |
| New U-RNTI                                                    |                                                                                                         |         | RCS3-005 |
| - SRNC identity                                               | 0000 0000 0001B                                                                                         |         | RCS3-006 |
| - S-RNTI                                                      | 0000 0000 0000 0000 0001B                                                                               |         | RCS3-007 |
| New C-RNTI                                                    | Not Present                                                                                             |         | RCS3-008 |
| RRC State Indicator                                           | CELL_FACH                                                                                               |         | RCS3-009 |
| UTRAN DRX cycle length coefficient                            | 9 , Integer(3...9)                                                                                      |         | RCS3-010 |
| Capability update requirement                                 |                                                                                                         |         | RCS3-011 |
| - UE radio access FDD capability update requirement           | FALSE                                                                                                   |         | RCS3-012 |
| - UE radio access 3.84 Mcps TDD capability update requirement | FALSE                                                                                                   |         | RCS3-013 |
| - UE radio access 1.28 Mcps TDD capability update requirement | TRUE                                                                                                    |         | RCS3-014 |
| - System specific capability update requirement list          | GSM                                                                                                     |         | RCS3-015 |
| CHOICE <i>specification mode</i>                              | Complete specification                                                                                  | Rel-5   | RCS3-016 |
| - Complete specification                                      |                                                                                                         | Rel-5   | RCS3-017 |
| - Signalling RB information to setup list                     |                                                                                                         |         | RCS3-018 |
| - Signalling RB information to setup                          | (UM DCCH for RRC)                                                                                       |         | RCS3-019 |
| - RB identity                                                 | 1                                                                                                       |         | RCS3-020 |
| - CHOICE RLC info type                                        | RLC info                                                                                                |         | RCS3-021 |
| - CHOICE Uplink RLC mode                                      | UM RLC                                                                                                  |         | RCS3-022 |
| - Transmission RLC discard                                    | Not Present                                                                                             |         | RCS3-023 |
| - CHOICE Downlink RLC mode                                    | UM RLC                                                                                                  |         | RCS3-024 |
| - RB mapping info                                             |                                                                                                         |         | RCS3-025 |
| - Information for each multiplexing option                    | 2 RBmuxOptions                                                                                          |         | RCS3-026 |
| - RLC logical channel mapping indicator                       | Not Present                                                                                             |         | RCS3-027 |
| - Number of RLC logical channels                              | 1                                                                                                       |         | RCS3-028 |
| - Uplink transport channel type                               | DCH                                                                                                     |         | RCS3-029 |
| - UL Transport channel identity                               | 5                                                                                                       |         | RCS3-030 |
| - Logical channel identity                                    | 1                                                                                                       |         | RCS3-031 |
| - CHOICE RLC size list                                        | Configure                                                                                               |         | RCS3-032 |

| Information Element                        | Value/remark                        | Version | Index    |
|--------------------------------------------|-------------------------------------|---------|----------|
| - MAC logical channel priority             | 1                                   |         | RCS3-033 |
| - Downlink RLC logical channel info        |                                     |         | RCS3-034 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-035 |
| - Downlink transport channel type          | DCH                                 |         | RCS3-036 |
| - DL DCH Transport channel identity        |                                     |         | RCS3-037 |
| - Transport channel identity               | 10                                  |         | RCS3-038 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS3-039 |
| - DL HS-DSCH MAC-d flow identity           | Not Present                         |         | RCS3-040 |
| - Logical channel identity                 | 1                                   |         | RCS3-041 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS3-042 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-043 |
| - Uplink transport channel type            | RACH                                |         | RCS3-044 |
| - UL Transport channel identity            |                                     |         | RCS3-045 |
| - Logical channel identity                 | 1                                   |         | RCS3-046 |
| - CHOICE RLC size list                     | Explicit List                       |         | RCS3-047 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS3-048 |
| - MAC logical channel priority             | 1                                   |         | RCS3-049 |
| - Downlink RLC logical channel info        |                                     |         | RCS3-050 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-051 |
| - Downlink transport channel type          | FACH                                |         | RCS3-052 |
| - DL DCH Transport channel identity        | Not Present                         |         | RCS3-053 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS3-054 |
| - DL HS-DSCH MAC-d flow identity           | Not Present                         |         | RCS3-055 |
| - Logical channel identity                 | 1                                   |         | RCS3-056 |
| - Signalling RB information to setup       | (AM DCCH for RRC)                   |         | RCS3-057 |
| - RB identity                              | 2                                   |         | RCS3-058 |
| - CHOICE RLC info type                     | RLC info                            |         | RCS3-059 |
| - CHOICE Uplink RLC mode                   | AM RLC                              |         | RCS3-060 |
| - Transmission RLC discard                 |                                     |         | RCS3-061 |
| - CHOICE SDU discard mode                  | No Discard                          |         | RCS3-062 |
| - MAX_DAT                                  | 15                                  |         | RCS3-063 |
| - Transmission window size                 | 32                                  |         | RCS3-064 |
| - Timer_RST                                | 500                                 |         | RCS3-065 |
| - Max_RST                                  | 1                                   |         | RCS3-066 |
| - Polling info                             |                                     |         | RCS3-067 |
| - Timer_poll_prohibit                      | 200                                 |         | RCS3-068 |
| - Timer_poll                               | 200                                 |         | RCS3-069 |
| - Poll_PDU                                 | Not present                         |         | RCS3-070 |
| - Poll_SDU                                 | 1                                   |         | RCS3-071 |
| - Last transmission PDU poll               | TRUE                                |         | RCS3-072 |
| - Last retransmission PDU poll             | TRUE                                |         | RCS3-073 |
| - Poll_Window                              | 99                                  |         | RCS3-074 |
| - Timer_poll_periodic                      | Not Present                         |         | RCS3-075 |
| - CHOICE Downlink RLC mode                 | AM RLC                              |         | RCS3-076 |
| - In-sequence delivery                     | TRUE                                |         | RCS3-077 |
| - Receiving window size                    | 32                                  |         | RCS3-078 |
| - Downlink RLC status info                 |                                     |         | RCS3-079 |
| - Timer_status_prohibit                    | 200                                 |         | RCS3-080 |
| - Timer_EPC                                | Not Present                         |         | RCS3-081 |
| - Missing PDU indicator                    | TRUE                                |         | RCS3-082 |
| - Timer_STATUS_periodic                    | Not Present                         |         | RCS3-083 |
| - RB mapping info                          |                                     |         | RCS3-084 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RCS3-085 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS3-086 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-087 |
| - Uplink transport channel type            | DCH                                 |         | RCS3-088 |
| - UL Transport channel identity            | 5                                   |         | RCS3-089 |
| - Logical channel identity                 | 2                                   |         | RCS3-090 |
| - CHOICE RLC size list                     | Configure                           |         | RCS3-091 |
| - MAC logical channel priority             | 2                                   |         | RCS3-092 |
| - Downlink RLC logical channel info        |                                     |         | RCS3-093 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-094 |
| - Downlink transport channel type          | DCH                                 |         | RCS3-095 |
| - DL DCH Transport channel identity        |                                     |         | RCS3-096 |
| - Transport channel identity               | 10                                  |         | RCS3-097 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS3-098 |
| - DL HS-DSCH MAC-d flow identity           | Not Present                         |         | RCS3-099 |

| Information Element                        | Value/remark                        | Version | Index    |
|--------------------------------------------|-------------------------------------|---------|----------|
| - Logical channel identity                 | 2                                   |         | RCS3-100 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS3-101 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-102 |
| - Uplink transport channel type            | RACH                                |         | RCS3-103 |
| - UL Transport channel identity            | Not Present                         |         | RCS3-104 |
| - Logical channel identity                 | 2                                   |         | RCS3-105 |
| - CHOICE RLC size list                     | Explicit List                       |         | RCS3-106 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS3-107 |
| - MAC logical channel priority             | 2                                   |         | RCS3-108 |
| - Downlink RLC logical channel info        |                                     |         | RCS3-109 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-110 |
| - Downlink transport channel type          | FACH                                |         | RCS3-111 |
| - DL DCH Transport channel identity        | Not Present                         |         | RCS3-112 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS3-113 |
| - DL HS-DSCH MAC-d flow identity           | Not Present                         |         | RCS3-114 |
| - Logical channel identity                 | 2                                   |         | RCS3-115 |
| - Signalling RB information to setup       | (AM DCCH for NAS_DT High priority)  |         | RCS3-116 |
| - RB identity                              | 3                                   |         | RCS3-117 |
| - CHOICE RLC info type                     | RLC info                            |         | RCS3-118 |
| - CHOICE Uplink RLC mode                   | AM RLC                              |         | RCS3-119 |
| - Transmission RLC discard                 |                                     |         | RCS3-120 |
| - CHOICE SDU discard mode                  | No Discard                          |         | RCS3-121 |
| - MAX_DAT                                  | 15                                  |         | RCS3-122 |
| - Transmission window size                 | 32                                  |         | RCS3-123 |
| - Timer_RST                                | 500                                 |         | RCS3-124 |
| - Max_RST                                  | 1                                   |         | RCS3-125 |
| - Polling info                             |                                     |         | RCS3-126 |
| - Timer_poll_prohibit                      | 200                                 |         | RCS3-127 |
| - Timer_poll                               | 200                                 |         | RCS3-128 |
| - Poll_PDU                                 | Not present                         |         | RCS3-129 |
| - Poll_SDU                                 | 1                                   |         | RCS3-130 |
| - Last transmission PDU poll               | TRUE                                |         | RCS3-131 |
| - Last retransmission PDU poll             | TRUE                                |         | RCS3-132 |
| - Poll_Window                              | 99                                  |         | RCS3-133 |
| - Timer_poll_periodic                      | Not Present                         |         | RCS3-134 |
| - CHOICE Downlink RLC mode                 | AM RLC                              |         | RCS3-135 |
| - In-sequence delivery                     | TRUE                                |         | RCS3-136 |
| - Receiving window size                    | 32                                  |         | RCS3-137 |
| - Downlink RLC status info                 |                                     |         | RCS3-138 |
| - Timer_status_prohibit                    | 200                                 |         | RCS3-139 |
| - Timer_EPC                                | Not Present                         |         | RCS3-140 |
| - Missing PDU indicator                    | TRUE                                |         | RCS3-141 |
| - Timer_STATUS_periodic                    | Not Present                         |         | RCS3-142 |
| - RB mapping info                          |                                     |         | RCS3-143 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RCS3-144 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS3-145 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-146 |
| - Uplink transport channel type            | DCH                                 |         | RCS3-147 |
| - UL Transport channel identity            | 5                                   |         | RCS3-148 |
| - Logical channel identity                 | 3                                   |         | RCS3-149 |
| - CHOICE RLC size list                     | Configure                           |         | RCS3-150 |
| - MAC logical channel priority             | 3                                   |         | RCS3-151 |
| - Downlink RLC logical channel info        |                                     |         | RCS3-152 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-153 |
| - Downlink transport channel type          | DCH                                 |         | RCS3-154 |
| - DL DCH Transport channel identity        |                                     |         | RCS3-155 |
| - Transport channel identity               | 10                                  |         | RCS3-156 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS3-157 |
| - DL HS-DSCH MAC-d flow identity           | Not Present                         |         | RCS3-158 |
| - Logical channel identity                 | 3                                   |         | RCS3-159 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS3-160 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-161 |
| - Uplink transport channel type            | RACH                                |         | RCS3-162 |
| - UL Transport channel identity            | Not Present                         |         | RCS3-163 |
| - Logical channel identity                 | 3                                   |         | RCS3-164 |
| - CHOICE RLC size list                     | Explicit List                       |         | RCS3-165 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS3-166 |

| Information Element                        | Value/remark                        | Version | Index    |
|--------------------------------------------|-------------------------------------|---------|----------|
| - MAC logical channel priority             | 3                                   |         | RCS3-167 |
| - Downlink RLC logical channel info        |                                     |         | RCS3-168 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-169 |
| - Downlink transport channel type          | FACH                                |         | RCS3-170 |
| - DL DCH Transport channel identity        | Not Present                         |         | RCS3-171 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS3-172 |
| - DL HS-DSCH MAC-d flow identity           | Not Present                         |         | RCS3-173 |
| - Logical channel identity                 | 3                                   |         | RCS3-174 |
| - Signalling RB information to setup       | (AM DCCH for NAS_DT Low priority)   |         | RCS3-175 |
| - RB identity                              | 4                                   |         | RCS3-176 |
| - CHOICE RLC info type                     | RLC info                            |         | RCS3-177 |
| - CHOICE Uplink RLC mode                   | AM RLC                              |         | RCS3-178 |
| - Transmission RLC discard                 |                                     |         | RCS3-179 |
| - CHOICE SDU discard mode                  | No discard                          |         | RCS3-180 |
| - MAX_DAT                                  | 15                                  |         | RCS3-181 |
| - Transmission window size                 | 32                                  |         | RCS3-182 |
| - Timer_RST                                | 500                                 |         | RCS3-183 |
| - Max_RST                                  | 1                                   |         | RCS3-184 |
| - Polling info                             |                                     |         | RCS3-185 |
| - Timer_poll_prohibit                      | 200                                 |         | RCS3-186 |
| - Timer_poll                               | 200                                 |         | RCS3-187 |
| - Poll_PDU                                 | Not present                         |         | RCS3-188 |
| - Poll_SDU                                 | 1                                   |         | RCS3-189 |
| - Last transmission PDU poll               | TRUE                                |         | RCS3-190 |
| - Last retransmission PDU poll             | TRUE                                |         | RCS3-191 |
| - Poll_Window                              | 99                                  |         | RCS3-192 |
| - Timer_poll_periodic                      | Not Present                         |         | RCS3-193 |
| - CHOICE Downlink RLC mode                 | AM RLC                              |         | RCS3-194 |
| - In-sequence delivery                     | TRUE                                |         | RCS3-195 |
| - Receiving window size                    | 32                                  |         | RCS3-196 |
| - Downlink RLC status info                 |                                     |         | RCS3-197 |
| - Timer_status_prohibit                    | 200                                 |         | RCS3-198 |
| - Timer_EPC                                | Not Present                         |         | RCS3-199 |
| - Missing PDU indicator                    | TRUE                                |         | RCS3-200 |
| - Timer_STATUS_periodic                    | Not Present                         |         | RCS3-201 |
| - RB mapping info                          |                                     |         | RCS3-202 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RCS3-203 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS3-204 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-205 |
| - Uplink transport channel type            | DCH                                 |         | RCS3-206 |
| - UL Transport channel identity            | 5                                   |         | RCS3-207 |
| - Logical channel identity                 | 4                                   |         | RCS3-208 |
| - CHOICE RLC size list                     | Configure                           |         | RCS3-209 |
| - MAC logical channel priority             | 4                                   |         | RCS3-210 |
| - Downlink RLC logical channel info        |                                     |         | RCS3-211 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-212 |
| - Downlink transport channel type          | DCH                                 |         | RCS3-213 |
| - DL DCH Transport channel identity        |                                     |         | RCS3-214 |
| - Transport channel identity               | 10                                  |         | RCS3-215 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS3-216 |
| - DL HS-DSCH MAC-d flow identity           | Not Present                         |         | RCS3-217 |
| - Logical channel identity                 | 4                                   |         | RCS3-218 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS3-219 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-220 |
| - Uplink transport channel type            | RACH                                |         | RCS3-221 |
| - UL Transport channel identity            | Not Present                         |         | RCS3-222 |
| - Logical channel identity                 | 4                                   |         | RCS3-223 |
| - CHOICE RLC size list                     | Explicit List                       |         | RCS3-224 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS3-225 |
| - MAC logical channel priority             | 4                                   |         | RCS3-226 |
| - Downlink RLC logical channel info        |                                     |         | RCS3-227 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-228 |
| - Downlink transport channel type          | FACH                                |         | RCS3-229 |
| - DL DCH Transport channel identity        | Not Present                         |         | RCS3-230 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS3-231 |
| - DL HS-DSCH MAC-d flow identity           | Not Present                         |         | RCS3-232 |
| - Logical channel identity                 | 4                                   |         | RCS3-233 |

| Information Element                                                 | Value/remark                                                                                                         | Version | Index    |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------|----------|
| - UL Transport channel information for all transport channels       |                                                                                                                      |         | RCS3-234 |
| - PRACH TFCS                                                        | Not Present                                                                                                          |         | RCS3-235 |
| - CHOICE mode                                                       | TDD                                                                                                                  |         | RCS3-236 |
| -Individual UL CCTrCH information                                   |                                                                                                                      |         | RCS3-237 |
| - UL TFCS Identity                                                  |                                                                                                                      |         | RCS3-238 |
| - TFCS ID                                                           | 1                                                                                                                    |         | RCS3-239 |
| - Shared Channel Indicator                                          | FALSE                                                                                                                |         | RCS3-240 |
| - UL TFCS                                                           |                                                                                                                      |         | RCS3-241 |
| - CHOICE TFCI signalling                                            | Normal                                                                                                               |         | RCS3-242 |
| - TFCI Field 1 Information                                          |                                                                                                                      |         | RCS3-243 |
| - CHOICE TFCS representation                                        | Complete reconfiguration                                                                                             |         | RCS3-244 |
| - TFCS complete reconfiguration                                     |                                                                                                                      |         | RCS3-245 |
| information                                                         |                                                                                                                      |         |          |
| - CHOICE CTFC Size                                                  | Configured, Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.3.4 Parameter Set. |         | RCS3-246 |
| - CTFC information                                                  | This IE is repeated for TFC numbers and reference to clause 6.10.3.4 Parameter Set                                   |         | RCS3-247 |
| - CTFC                                                              | Reference to clause 6.10.3.4 Parameter Set                                                                           |         | RCS3-248 |
| - Power offset Information                                          |                                                                                                                      |         | RCS3-249 |
| - CHOICE Gain Factors                                               | Computed Gain Factors(The last TFC is set to Signalled Gain Factors)                                                 |         | RCS3-250 |
| - Reference TFC ID                                                  | 0, Integer(0.. 3)                                                                                                    |         | RCS3-251 |
|                                                                     |                                                                                                                      |         | RCS3-252 |
|                                                                     |                                                                                                                      |         | RCS3-253 |
|                                                                     |                                                                                                                      |         | RCS3-254 |
|                                                                     |                                                                                                                      |         | RCS3-255 |
| - CHOICE mode                                                       | TDD                                                                                                                  |         | RCS3-256 |
| - TFC subset                                                        | Not present Default value is the complete existing set of transport format combinations                              |         | RCS3-257 |
|                                                                     |                                                                                                                      |         | RCS3-258 |
|                                                                     |                                                                                                                      |         | RCS3-259 |
|                                                                     |                                                                                                                      |         | RCS3-260 |
| - TFC subset list                                                   | Not present                                                                                                          |         | RCS3-261 |
| - Added or Reconfigured UL TrCH information list                    |                                                                                                                      |         | RCS3-262 |
| - Added or Reconfigured UL TrCH information                         |                                                                                                                      |         | RCS3-263 |
| - Uplink transport channel type                                     | DCH                                                                                                                  |         | RCS3-264 |
| - UL Transport channel identity                                     | 5                                                                                                                    |         | RCS3-265 |
| - TFS                                                               |                                                                                                                      |         | RCS3-266 |
| - CHOICE Transport channel type                                     | Dedicated transport channels                                                                                         |         | RCS3-267 |
| - Dynamic Transport format information                              |                                                                                                                      |         | RCS3-268 |
| - RLC size                                                          | According to clause 6 for standalone 13.6 kbps signalling radio bearer                                               |         | RCS3-269 |
| - Number of TBs and TTI lists                                       | (This IE is repeated for TFI number)                                                                                 |         | RCS3-270 |
| - Transmission Time Interval                                        | According to clause 6 for standalone 13.6 kbps signalling radio bearer                                               |         | RCS3-271 |
| - Number of Transport blocks                                        | Reference to clause 6.10 Parameter Set                                                                               |         | RCS3-272 |
| - CHOICE Logical channel list                                       | All                                                                                                                  |         | RCS3-273 |
| - Semi-static Transport Format information                          |                                                                                                                      |         | RCS3-274 |
| - Transmission time interval                                        | Reference to clause 6.10 Parameter Set                                                                               |         | RCS3-275 |
| - Type of channel coding                                            | Reference to clause 6.10 Parameter Set                                                                               |         | RCS3-276 |
| - Coding Rate                                                       | Reference to clause 6.10 Parameter Set                                                                               |         | RCS3-277 |
| - Rate matching attribute                                           | Reference to clause 6.10 Parameter Set                                                                               |         | RCS3-278 |
| - CRC size                                                          | Reference to clause 6.10 Parameter Set                                                                               |         | RCS3-279 |
| - DL Transport channel information common for all transport channel |                                                                                                                      |         | RCS3-280 |
| - SCCPCH TFCS                                                       | Not Present                                                                                                          |         | RCS3-281 |
| - CHOICE mode                                                       | TDD                                                                                                                  |         | RCS3-282 |
| -Individual DL CCTrCH information                                   |                                                                                                                      |         | RCS3-283 |
| - DL TFCS Identity                                                  |                                                                                                                      |         | RCS3-284 |
| - TFCS ID                                                           | 1                                                                                                                    |         | RCS3-285 |
| - Shared Channel Indicator                                          | FALSE                                                                                                                |         | RCS3-286 |
| - CHOICE DL parameters                                              | Same as UL                                                                                                           |         | RCS3-287 |
| - UL DCH TFCS Identity                                              | 1                                                                                                                    |         | RCS3-288 |
| - Shared Channel Indicator                                          | FALSE                                                                                                                |         | RCS3-289 |
| - Added or Reconfigured TrCH information list                       |                                                                                                                      |         | RCS3-290 |



| Information Element                             | Value/remark                                                  | Version | Index    |
|-------------------------------------------------|---------------------------------------------------------------|---------|----------|
| - Added or Reconfigured DL TrCH information     |                                                               |         | RCS3-291 |
| - Downlink transport channel type               | DCH                                                           |         | RCS3-292 |
| - DL Transport channel identity                 | 10                                                            |         | RCS3-293 |
| - CHOICE DL parameters                          | Same as UL                                                    |         | RCS3-294 |
| - Uplink transport channel type                 | DCH                                                           |         | RCS3-295 |
| - UL Transport channel identity                 | 5                                                             |         | RCS3-296 |
| -DCH quality target                             |                                                               |         | RCS3-297 |
| - BLER Quality value                            | -63 (-6.3)                                                    |         | RCS3-298 |
| Frequency info                                  | Not Present                                                   |         | RCS3-299 |
| Maximum allowed UL TX power                     | Not Present Default value is the existing maximum UL TX power |         | RCS3-300 |
| CHOICE channel requirement                      | Not present                                                   |         | RCS3-301 |
| Downlink information common for all radio links | Not present                                                   |         | RCS3-302 |
| Downlink information for each radio link list   | Not present                                                   |         | RCS3-303 |

## Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_FACH) (1.28 Mcps TDD)

| Information Element                                           | Condition       | Value/remark                                                                                            | Version | Index     |
|---------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------|---------|-----------|
| Message Type                                                  |                 |                                                                                                         |         | RCS1-001  |
| Initial UE identity                                           |                 | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message |         | RCS1-002  |
| RRC transaction identifier                                    |                 | Arbitrarily selects an integer between 0 and 3                                                          |         | RCS1-003  |
| Activation time                                               |                 | Not Present(Now)                                                                                        |         | RCS1-004  |
| New U-RNTI                                                    |                 |                                                                                                         |         | RCS1-005  |
| - SRNC identity                                               |                 | 0000 0000 0001B                                                                                         |         | RCS1-006  |
| - S-RNTI                                                      |                 | 0000 0000 0000 0000 0001B                                                                               |         | RCS1-007  |
| New C-RNTI                                                    |                 | 0000 0000 0000 0001B                                                                                    |         | RCS1-008  |
| RRC State Indicator                                           |                 | CELL_FACH                                                                                               |         | RCS1-009  |
| UTRAN DRX cycle length coefficient                            |                 | 9 , Integer(3...9)                                                                                      |         | RCS1-010  |
| Capability update requirement                                 |                 |                                                                                                         |         | RCS1-011  |
| - UE radio access FDD capability update requirement           |                 | FALSE                                                                                                   |         | RCS1-012  |
| - UE radio access 3.84 Mcps TDD capability update requirement |                 | FALSE                                                                                                   |         | RCS1-013  |
| - UE radio access 1.28 Mcps TDD capability update requirement |                 | TRUE                                                                                                    |         | RCS1-014  |
| - System specific capability update requirement list          |                 | Not Present                                                                                             |         | RCS1-015  |
| - System specific capability update requirement list          | UTRAN to E-UTRA | GSM, EUTRA                                                                                              | Rel-8   | RCS1-015b |
| CHOICE specification mode                                     |                 | Complete specification                                                                                  | Rel-5   | RCS1-016  |
| - Complete specification                                      |                 |                                                                                                         | Rel-5   | RCS1-017  |
| - Signalling RB information to setup list                     |                 |                                                                                                         |         | RCS1-018  |
| - Signalling RB information to setup                          |                 | (UM DCCH for RRC)                                                                                       |         | RCS1-019  |
| - RB identity                                                 |                 | 1                                                                                                       |         | RCS1-020  |
| - CHOICE RLC info type                                        |                 | RLC info                                                                                                |         | RCS1-021  |
| - CHOICE Uplink RLC mode                                      |                 | UM RLC                                                                                                  |         | RCS1-022  |
| - Transmission RLC discard                                    |                 | Not Present                                                                                             |         | RCS1-023  |
| - CHOICE Downlink RLC mode                                    |                 | UM RLC                                                                                                  |         | RCS1-024  |
| - RB mapping info                                             |                 |                                                                                                         |         | RCS1-025  |
| - Information for each multiplexing option                    |                 | 2 RBmuxOptions                                                                                          |         | RCS1-026  |
| - RLC logical channel mapping indicator                       |                 | Not Present                                                                                             |         | RCS1-027  |
| - Number of RLC logical channels                              |                 | 1                                                                                                       |         | RCS1-028  |
| - Uplink transport channel type                               |                 | DCH                                                                                                     |         | RCS1-029  |
| - UL Transport channel identity                               |                 | 5                                                                                                       |         | RCS1-030  |
| - Logical channel identity                                    |                 | 1                                                                                                       |         | RCS1-031  |
| - CHOICE RLC size list                                        |                 | Configure                                                                                               |         | RCS1-032  |
| - MAC logical channel priority                                |                 | 1                                                                                                       |         | RCS1-033  |
| - Downlink RLC logical channel info                           |                 |                                                                                                         |         | RCS1-034  |
| - Number of RLC logical channels                              |                 | 1                                                                                                       |         | RCS1-035  |
| - Downlink transport channel type                             |                 | DCH                                                                                                     |         | RCS1-036  |
| - DL DCH Transport channel identity                           |                 |                                                                                                         |         | RCS1-037  |
| - Transport channel identity                                  |                 | 10                                                                                                      |         | RCS1-038  |
| - DL DSCH Transport channel identity                          |                 | Not Present                                                                                             |         | RCS1-039  |

| Information Element                        | Condition | Value/remark                        | Version | Index    |
|--------------------------------------------|-----------|-------------------------------------|---------|----------|
| - DL HS-DSCH MAC-d flow identity           |           | Not Present                         |         | RCS1-040 |
| - Logical channel identity                 |           | 1                                   |         | RCS1-041 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RCS1-042 |
| - Number of RLC logical channels           |           | 1                                   |         | RCS1-043 |
| - Uplink transport channel type            |           | RACH                                |         | RCS1-044 |
| - UL Transport channel identity            |           |                                     |         | RCS1-045 |
| - Logical channel identity                 |           | 1                                   |         | RCS1-046 |
| - CHOICE RLC size list                     |           | Explicit List                       |         | RCS1-047 |
| - RLC size index                           |           | Reference to clause 6 Parameter Set |         | RCS1-048 |
| - MAC logical channel priority             |           | 1                                   |         | RCS1-049 |
| - Downlink RLC logical channel info        |           |                                     |         | RCS1-050 |
| - Number of RLC logical channels           |           | 1                                   |         | RCS1-051 |
| - Downlink transport channel type          |           | FACH                                |         | RCS1-052 |
| - DL DCH Transport channel identity        |           | Not Present                         |         | RCS1-053 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RCS1-054 |
| - DL HS-DSCH MAC-d flow identity           |           | Not Present                         |         | RCS1-055 |
| - Logical channel identity                 |           | 1                                   |         | RCS1-056 |
| - Signalling RB information to setup       |           | (AM DCCH for RRC)                   |         | RCS1-057 |
| - RB identity                              |           | 2                                   |         | RCS1-058 |
| - CHOICE RLC info type                     |           | RLC info                            |         | RCS1-059 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                              |         | RCS1-060 |
| - Transmission RLC discard                 |           |                                     |         | RCS1-061 |
| - CHOICE SDU discard mode                  |           | No Discard                          |         | RCS1-062 |
| - MAX_DAT                                  |           | 15                                  |         | RCS1-063 |
| - Transmission window size                 |           | 32                                  |         | RCS1-064 |
| - Timer_RST                                |           | 500                                 |         | RCS1-065 |
| - Max_RST                                  |           | 1                                   |         | RCS1-066 |
| - Polling info                             |           |                                     |         | RCS1-067 |
| - Timer_poll_prohibit                      |           | 200                                 |         | RCS1-068 |
| - Timer_poll                               |           | 200                                 |         | RCS1-069 |
| - Poll_PDU                                 |           | Not present                         |         | RCS1-070 |
| - Poll_SDU                                 |           | 1                                   |         | RCS1-071 |
| - Last transmission PDU poll               |           | TRUE                                |         | RCS1-072 |
| - Last retransmission PDU poll             |           | TRUE                                |         | RCS1-073 |
| - Poll_Window                              |           | 99                                  |         | RCS1-074 |
| - Timer_poll_periodic                      |           | Not Present                         |         | RCS1-075 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                              |         | RCS1-076 |
| - In-sequence delivery                     |           | TRUE                                |         | RCS1-077 |
| - Receiving window size                    |           | 32                                  |         | RCS1-078 |
| - Downlink RLC status info                 |           |                                     |         | RCS1-079 |
| - Timer_status_prohibit                    |           | 200                                 |         | RCS1-080 |
| - Timer_EPC                                |           | Not Present                         |         | RCS1-081 |
| - Missing PDU indicator                    |           | TRUE                                |         | RCS1-082 |
| - Timer_STATUS_periodic                    |           | Not Present                         |         | RCS1-083 |
| - RB mapping info                          |           |                                     |         | RCS1-084 |
| - Information for each multiplexing option |           | 2 RBMuxOptions                      |         | RCS1-085 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RCS1-086 |
| - Number of RLC logical channels           |           | 1                                   |         | RCS1-087 |
| - Uplink transport channel type            |           | DCH                                 |         | RCS1-088 |
| - UL Transport channel identity            |           | 5                                   |         | RCS1-089 |
| - Logical channel identity                 |           | 2                                   |         | RCS1-090 |
| - CHOICE RLC size list                     |           | Configure                           |         | RCS1-091 |
| - MAC logical channel priority             |           | 2                                   |         | RCS1-092 |
| - Downlink RLC logical channel info        |           |                                     |         | RCS1-093 |
| - Number of RLC logical channels           |           | 1                                   |         | RCS1-094 |
| - Downlink transport channel type          |           | DCH                                 |         | RCS1-095 |
| - DL DCH Transport channel identity        |           |                                     |         | RCS1-096 |
| - Transport channel identity               |           | 10                                  |         | RCS1-097 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RCS1-098 |
| - DL HS-DSCH MAC-d flow identity           |           | Not Present                         |         | RCS1-099 |
| - Logical channel identity                 |           | 2                                   |         | RCS1-100 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RCS1-101 |
| - Number of RLC logical channels           |           | 1                                   |         | RCS1-102 |
| - Uplink transport channel type            |           | RACH                                |         | RCS1-103 |
| - UL Transport channel identity            |           | Not Present                         |         | RCS1-104 |
| - Logical channel identity                 |           | 2                                   |         | RCS1-105 |
| - CHOICE RLC size list                     |           | Explicit List                       |         | RCS1-106 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Condition | Value/remark                          | Version | Index    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- RLC size index</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- DL HS-DSCH MAC-d flow identity</li> <li>- Logical channel identity</li> <li>- Signalling RB information to setup</li> <li>- RB identity</li> <li>- CHOICE RLC info type</li> <li>- CHOICE Uplink RLC mode</li> <li>- Transmission RLC discard</li> <li>- CHOICE SDU discard mode</li> <li>- MAX_DAT</li> <li>- Transmission window size</li> <li>- Timer_RST</li> <li>- Max_RST</li> <li>- Polling info</li> <li>- Timer_poll_prohibit</li> <li>- Timer_poll</li> <li>- Poll_PDU</li> <li>- Poll_SDU</li> <li>- Last transmission PDU poll</li> <li>- Last retransmission PDU poll</li> <li>- Poll_Window</li> <li>- Timer_poll_periodic</li> <li>- CHOICE Downlink RLC mode</li> <li>- In-sequence delivery</li> <li>- Receiving window size</li> <li>- Downlink RLC status info</li> <li>- Timer_status_prohibit</li> <li>- Timer_EPC</li> <li>- Missing PDU indicator</li> <li>- Timer_STATUS_periodic</li> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- DL HS-DSCH MAC-d flow identity</li> <li>- Logical channel identity</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> </ul> |           | Reference to clause 6 Parameter Set 2 |         | RCS1-107 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | 1                                     |         | RCS1-108 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | 3                                     |         | RCS1-115 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | AM RLC                                |         | RCS1-131 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | TRUE                                  |         | RCS1-132 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | 32                                    |         | RCS1-133 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | Not Present                           |         | RCS1-135 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | TRUE                                  |         | RCS1-136 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | Not Present                           |         | RCS1-139 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | 1                                     |         | RCS1-140 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | 1                                     |         | RCS1-153 |
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| <ul style="list-style-type: none"> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> <li>- RLC size index</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- DL HS-DSCH MAC-d flow identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | 3                                     |         | RCS1-156 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | Not Present                           |         | RCS1-162 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | Not Present                           |         | RCS1-163 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | Not Present                           |         | RCS1-164 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | Not Present                           |         | RCS1-165 |

| Information Element                                           | Condition | Value/remark                        | Version | Index    |
|---------------------------------------------------------------|-----------|-------------------------------------|---------|----------|
| - Logical channel identity                                    |           | 3                                   |         | RCS1-174 |
| - Signalling RB information to setup                          |           | (AM DCCH for NAS_DT Low priority)   |         | RCS1-175 |
| - RB identity                                                 |           | 4                                   |         | RCS1-176 |
| - CHOICE RLC info type                                        |           | RLC info                            |         | RCS1-177 |
| - CHOICE Uplink RLC mode                                      |           | AM RLC                              |         | RCS1-178 |
| - Transmission RLC discard                                    |           |                                     |         | RCS1-179 |
| - CHOICE SDU discard mode                                     |           | No discard                          |         | RCS1-180 |
| - MAX_DAT                                                     |           | 15                                  |         | RCS1-181 |
| - Transmission window size                                    |           | 32                                  |         | RCS1-182 |
| - Timer_RST                                                   |           | 500                                 |         | RCS1-183 |
| - Max_RST                                                     |           | 1                                   |         | RCS1-184 |
| - Polling info                                                |           |                                     |         | RCS1-185 |
| - Timer_poll_prohibit                                         |           | 200                                 |         | RCS1-186 |
| - Timer_poll                                                  |           | 200                                 |         | RCS1-187 |
|                                                               |           |                                     |         | RCS1-188 |
| - Poll_SDU                                                    |           | 1                                   |         | RCS1-189 |
| - Last transmission PDU poll                                  |           | TRUE                                |         | RCS1-190 |
| - Last retransmission PDU poll                                |           | TRUE                                |         | RCS1-191 |
| - Poll_Window                                                 |           | 99                                  |         | RCS1-192 |
| - Timer_poll_periodic                                         |           | Not Present                         |         | RCS1-193 |
| - CHOICE Downlink RLC mode                                    |           | AM RLC                              |         | RCS1-194 |
| - In-sequence delivery                                        |           | TRUE                                |         | RCS1-195 |
| - Receiving window size                                       |           | 32                                  |         | RCS1-196 |
| - Downlink RLC status info                                    |           |                                     |         | RCS1-197 |
| - Timer_status_prohibit                                       |           | 200                                 |         | RCS1-198 |
| - Timer_EPC                                                   |           | Not Present                         |         | RCS1-199 |
| - Missing PDU indicator                                       |           | TRUE                                |         | RCS1-200 |
| - Timer_STATUS_periodic                                       |           | Not Present                         |         | RCS1-201 |
| - RB mapping info                                             |           |                                     |         | RCS1-202 |
| - Information for each multiplexing option                    |           | 2 RBMuxOptions                      |         | RCS1-203 |
| - RLC logical channel mapping indicator                       |           | Not Present                         |         | RCS1-204 |
| - Number of RLC logical channels                              |           | 1                                   |         | RCS1-205 |
| - Uplink transport channel type                               |           | DCH                                 |         | RCS1-206 |
| - UL Transport channel identity                               |           | 5                                   |         | RCS1-207 |
| - Logical channel identity                                    |           | 4                                   |         | RCS1-208 |
| - CHOICE RLC size list                                        |           | Configure                           |         | RCS1-209 |
| - MAC logical channel priority                                |           | 4                                   |         | RCS1-210 |
| - Downlink RLC logical channel info                           |           |                                     |         | RCS1-211 |
| - Number of RLC logical channels                              |           | 1                                   |         | RCS1-212 |
| - Downlink transport channel type                             |           | DCH                                 |         | RCS1-213 |
| - DL DCH Transport channel identity                           |           |                                     |         | RCS1-214 |
| - Transport channel identity                                  |           | 10                                  |         | RCS1-215 |
| - DL DSCH Transport channel identity                          |           | Not Present                         |         | RCS1-216 |
| - DL HS-DSCH MAC-d flow identity                              |           | Not Present                         |         | RCS1-217 |
| - Logical channel identity                                    |           | 4                                   |         | RCS1-218 |
| - RLC logical channel mapping indicator                       |           | Not Present                         |         | RCS1-219 |
| - Number of RLC logical channels                              |           | 1                                   |         | RCS1-220 |
| - Uplink transport channel type                               |           | RACH                                |         | RCS1-221 |
| - UL Transport channel identity                               |           | Not Present                         |         | RCS1-222 |
| - Logical channel identity                                    |           | 4                                   |         | RCS1-223 |
| - CHOICE RLC size list                                        |           | Explicit List                       |         | RCS1-224 |
| - RLC size index                                              |           | Reference to clause 6 Parameter Set |         | RCS1-225 |
| - MAC logical channel priority                                |           | 4                                   |         | RCS1-226 |
| - Downlink RLC logical channel info                           |           |                                     |         | RCS1-227 |
| - Number of RLC logical channels                              |           | 1                                   |         | RCS1-228 |
| - Downlink transport channel type                             |           | FACH                                |         | RCS1-229 |
| - DL DCH Transport channel identity                           |           | Not Present                         |         | RCS1-230 |
| - DL DSCH Transport channel identity                          |           | Not Present                         |         | RCS1-231 |
| - DL HS-DSCH MAC-d flow identity                              |           | Not Present                         |         | RCS1-232 |
| - Logical channel identity                                    |           | 4                                   |         | RCS1-233 |
| - UL Transport channel information for all transport channels |           |                                     |         | RCS1-234 |
| - PRACH TFCS                                                  |           | Not Present                         |         | RCS1-235 |
| - CHOICE mode                                                 |           | TDD                                 |         | RCS1-236 |
| - Individual UL CCTrCH information                            |           |                                     |         | RCS1-237 |
| - UL TFCS Identity                                            |           |                                     |         | RCS1-238 |
| - TFCS ID                                                     |           | 1                                   |         | RCS1-239 |

| Information Element                             | Condition                                                      | Value/remark                                                        | Version | Index                                                                                                                |          |
|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------|----------|
| information                                     |                                                                | FALSE                                                               |         | RCS1-240                                                                                                             |          |
|                                                 |                                                                |                                                                     |         | RCS1-241                                                                                                             |          |
|                                                 |                                                                | Normal                                                              |         | RCS1-242                                                                                                             |          |
|                                                 |                                                                | Complete reconfiguration                                            |         | RCS1-243                                                                                                             |          |
|                                                 |                                                                |                                                                     |         | RCS1-244                                                                                                             |          |
|                                                 |                                                                |                                                                     |         | RCS1-245                                                                                                             |          |
|                                                 |                                                                | - CHOICE CTFC Size                                                  |         | Configured, Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. | RCS1-246 |
|                                                 |                                                                | - CTFC information                                                  |         | This IE is repeated for TFC numbers and reference to clause 6.11.5.4 Parameter Set                                   | RCS1-247 |
|                                                 |                                                                | - CTFC                                                              |         | Reference to clause 6.11.5.4 Parameter Set                                                                           | RCS1-248 |
|                                                 |                                                                | - Power offset Information                                          |         | Computed Gain Factors(The last TFC is set to Signalled Gain Factors)                                                 | RCS1-249 |
|                                                 |                                                                | - CHOICE Gain Factors                                               |         |                                                                                                                      | RCS1-250 |
|                                                 |                                                                | - Reference TFC ID                                                  |         | 0, Integer(0.. 3)                                                                                                    | RCS1-251 |
|                                                 |                                                                | - CHOICE mode                                                       |         | TDD                                                                                                                  | RCS1-252 |
|                                                 |                                                                | - TFC subset                                                        |         | Not present. Default value is the complete existing set of transport format combinations                             | RCS1-253 |
|                                                 |                                                                | - TFC subset list                                                   |         | Not present                                                                                                          | RCS1-254 |
|                                                 |                                                                | - DL Transport channel information common for all transport channel |         |                                                                                                                      | RCS1-255 |
|                                                 |                                                                | - SCCPCH TFCS                                                       |         | Not Present                                                                                                          | RCS1-256 |
|                                                 |                                                                | - CHOICE mode                                                       |         | TDD                                                                                                                  | RCS1-257 |
|                                                 |                                                                | -Individual DL CCTrCH information                                   |         |                                                                                                                      | RCS1-258 |
|                                                 |                                                                | - DL TFCS Identity                                                  |         |                                                                                                                      | RCS1-259 |
|                                                 |                                                                | - TFCS ID                                                           |         | 1                                                                                                                    | RCS1-260 |
|                                                 |                                                                | - Shared Channel Indicator                                          |         | FALSE                                                                                                                | RCS1-261 |
|                                                 |                                                                | - CHOICE DL parameters                                              |         | Same as UL                                                                                                           | RCS1-262 |
|                                                 |                                                                | - UL DCH TFCS Identity                                              |         | 1                                                                                                                    | RCS1-263 |
|                                                 |                                                                | - Shared Channel Indicator                                          |         | FALSE                                                                                                                | RCS1-264 |
| Frequency info                                  | Not Present                                                    | RCS1-265                                                            |         |                                                                                                                      |          |
| Maximum allowed UL TX power                     | Not Present. Default value is the existing maximum UL TX power | RCS1-266                                                            |         |                                                                                                                      |          |
| CHOICE channel requirement                      | Not present                                                    | RCS1-267                                                            |         |                                                                                                                      |          |
| Downlink information common for all radio links | Not present                                                    | RCS1-268                                                            |         |                                                                                                                      |          |
| Downlink information for each radio link list   | Not Present                                                    | RCS1-269                                                            |         |                                                                                                                      |          |

| Condition       | Explanation                                      | Version |
|-----------------|--------------------------------------------------|---------|
| UTRAN to E-UTRA | This IE is needed for UTRAN to E-UTRA test cases | Rel-8   |

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_FACH) (7.68 Mcps TDD)

| Information Element                | Value/remark                                                                                                                                                                  | Version | Index    |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                       | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message<br>Arbitrarily selects an integer between 0 and 3<br>Not Present(Now) |         | RCS7-001 |
| Initial UE identity                |                                                                                                                                                                               |         | RCS7-002 |
| RRC transaction identifier         |                                                                                                                                                                               |         | RCS7-003 |
| Activation time                    |                                                                                                                                                                               |         | RCS7-004 |
| New U-RNTI                         |                                                                                                                                                                               |         | RCS7-005 |
| - SRNC identity                    |                                                                                                                                                                               |         | RCS7-006 |
| - S-RNTI                           |                                                                                                                                                                               |         | RCS7-007 |
| New C-RNTI                         |                                                                                                                                                                               |         | RCS7-008 |
| New H-RNTI                         |                                                                                                                                                                               |         | RCS7-009 |
| CHOICE mode                        |                                                                                                                                                                               | Rel-6   | RCS7-010 |
| - New E-RNTI                       |                                                                                                                                                                               | Rel-7   | RCS7-011 |
| RRC State Indicator                |                                                                                                                                                                               |         | RCS7-012 |
| UTRAN DRX cycle length coefficient |                                                                                                                                                                               |         | RCS7-013 |

| Information Element                                           | Value/remark                        | Version | Index    |
|---------------------------------------------------------------|-------------------------------------|---------|----------|
| Capability update requirement                                 |                                     |         | RCS7-014 |
| - UE radio access FDD capability update requirement           | FALSE                               |         | RCS7-015 |
| - UE radio access 3.84 Mcps TDD capability update requirement | FALSE                               |         | RCS7-016 |
| - UE radio access 1.28 Mcps TDD capability update requirement | TRUE                                |         | RCS7-017 |
| - System specific capability update requirement list          | Not Present                         |         | RCS7-018 |
| CHOICE specification mode                                     |                                     |         | RCS7-019 |
| - Complete specification                                      |                                     |         | RCS7-020 |
| - Signalling RB information to setup list                     |                                     |         | RCS7-021 |
| - Signalling RB information to setup                          | (UM DCCH for RRC)                   |         | RCS7-022 |
| - RB identity                                                 | 1                                   |         | RCS7-023 |
| - CHOICE RLC info type                                        | RLC info                            |         | RCS7-024 |
| - CHOICE Uplink RLC mode                                      | UM RLC                              |         | RCS7-025 |
| - Transmission RLC discard                                    | Not Present                         |         | RCS7-026 |
| - CHOICE Downlink RLC mode                                    | UM RLC                              |         | RCS7-027 |
| - RB mapping info                                             |                                     |         | RCS7-028 |
| - Information for each multiplexing option                    | 2 RBMuxOptions                      |         | RCS7-029 |
| - RLC logical channel mapping indicator                       | Not Present                         |         | RCS7-030 |
| - Number of RLC logical channels                              | 1                                   |         | RCS7-031 |
| - Uplink transport channel type                               | DCH                                 |         | RCS7-032 |
| - UL Transport channel identity                               | 5                                   |         | RCS7-033 |
| - Logical channel identity                                    | 1                                   |         | RCS7-034 |
| - CHOICE RLC size list                                        | Configure                           |         | RCS7-035 |
| - MAC logical channel priority                                | 1                                   |         | RCS7-036 |
| - Downlink RLC logical channel info                           |                                     |         | RCS7-037 |
| - Number of RLC logical channels                              | 1                                   |         | RCS7-038 |
| - Downlink transport channel type                             | DCH                                 |         | RCS7-039 |
| - DL DCH Transport channel identity                           |                                     |         | RCS7-040 |
| - Transport channel identity                                  | 10                                  |         | RCS7-041 |
| - DL DSCH Transport channel identity                          | Not Present                         |         | RCS7-042 |
| - DL HS-DSCH MAC-d flow identity                              | Not Present                         |         | RCS7-043 |
| - Logical channel identity                                    | 1                                   |         | RCS7-044 |
| - RLC logical channel mapping indicator                       | Not Present                         |         | RCS7-045 |
| - Number of RLC logical channels                              | 1                                   |         | RCS7-046 |
| - Uplink transport channel type                               | RACH                                |         | RCS7-047 |
| - UL Transport channel identity                               |                                     |         | RCS7-048 |
| - Logical channel identity                                    | 1                                   |         | RCS7-049 |
| - CHOICE RLC size list                                        | Explicit List                       |         | RCS7-050 |
| - RLC size index                                              | Reference to clause 6 Parameter Set |         | RCS7-051 |
| - MAC logical channel priority                                | 1                                   |         | RCS7-052 |
| - Downlink RLC logical channel info                           |                                     |         | RCS7-053 |
| - Number of RLC logical channels                              | 1                                   |         | RCS7-054 |
| - Downlink transport channel type                             | FACH                                |         | RCS7-055 |
| - DL DCH Transport channel identity                           | Not Present                         |         | RCS7-056 |
| - DL DSCH Transport channel identity                          | Not Present                         |         | RCS7-057 |
| - DL HS-DSCH MAC-d flow identity                              | Not Present                         |         | RCS7-058 |
| - Logical channel identity                                    | 1                                   |         | RCS7-059 |
| - Signalling RB information to setup                          | (AM DCCH for RRC)                   |         | RCS7-060 |
| - RB identity                                                 | 2                                   |         | RCS7-061 |
| - CHOICE RLC info type                                        | RLC info                            |         | RCS7-062 |
| - CHOICE Uplink RLC mode                                      | AM RLC                              |         | RCS7-063 |
| - Transmission RLC discard                                    |                                     |         | RCS7-064 |
| - CHOICE SDU discard mode                                     | No Discard                          |         | RCS7-065 |
| - MAX_DAT                                                     | 15                                  |         | RCS7-066 |
| - Transmission window size                                    | 32                                  |         | RCS7-067 |
| - Timer_RST                                                   | 500                                 |         | RCS7-068 |
| - Max_RST                                                     | 1                                   |         | RCS7-069 |
| - Polling info                                                |                                     |         | RCS7-070 |
| - Timer_poll_prohibit                                         | 200                                 |         | RCS7-071 |
| - Timer_poll                                                  | 200                                 |         | RCS7-072 |
| - Poll_PDU                                                    | Not present                         |         | RCS7-073 |
| - Poll_SDU                                                    | 1                                   |         | RCS7-074 |
| - Last transmission PDU poll                                  | TRUE                                |         | RCS7-075 |
| - Last retransmission PDU poll                                | TRUE                                |         | RCS7-076 |
| - Poll_Window                                                 | 99                                  |         | RCS7-077 |

| Information Element                        | Value/remark                        | Version | Index    |
|--------------------------------------------|-------------------------------------|---------|----------|
| - Timer_poll_periodic                      | Not Present                         |         | RCS7-078 |
| - CHOICE Downlink RLC mode                 | AM RLC                              |         | RCS7-079 |
| - In-sequence delivery                     | TRUE                                |         | RCS7-080 |
| - Receiving window size                    | 32                                  |         | RCS7-081 |
| - Downlink RLC status info                 |                                     |         | RCS7-082 |
| - Timer_status_prohibit                    | 200                                 |         | RCS7-083 |
| - Timer_EPC                                | Not Present                         |         | RCS7-084 |
| - Missing PDU indicator                    | TRUE                                |         | RCS7-085 |
| - Timer_STATUS_periodic                    | Not Present                         |         | RCS7-086 |
| - RB mapping info                          |                                     |         | RCS7-087 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RCS7-088 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS7-089 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-090 |
| - Uplink transport channel type            | DCH                                 |         | RCS7-091 |
| - UL Transport channel identity            | 5                                   |         | RCS7-092 |
| - Logical channel identity                 | 2                                   |         | RCS7-093 |
| - CHOICE RLC size list                     | Configure                           |         | RCS7-094 |
| - MAC logical channel priority             | 2                                   |         | RCS7-095 |
| - Downlink RLC logical channel info        |                                     |         | RCS7-096 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-097 |
| - Downlink transport channel type          | DCH                                 |         | RCS7-098 |
| - DL DCH Transport channel identity        |                                     |         | RCS7-099 |
| - Transport channel identity               | 10                                  |         | RCS7-100 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS7-101 |
| - DL HS-DSCH MAC-d flow identity           | Not Present                         |         | RCS7-102 |
| - Logical channel identity                 | 2                                   |         | RCS7-103 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS7-104 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-105 |
| - Uplink transport channel type            | RACH                                |         | RCS7-106 |
| - UL Transport channel identity            | Not Present                         |         | RCS7-107 |
| - Logical channel identity                 | 2                                   |         | RCS7-108 |
| - CHOICE RLC size list                     | Explicit List                       |         | RCS7-109 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS7-110 |
| - MAC logical channel priority             | 2                                   |         | RCS7-111 |
| - Downlink RLC logical channel info        |                                     |         | RCS7-112 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-113 |
| - Downlink transport channel type          | FACH                                |         | RCS7-114 |
| - DL DCH Transport channel identity        | Not Present                         |         | RCS7-115 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS7-116 |
| - DL HS-DSCH MAC-d flow identity           | Not Present                         |         | RCS7-117 |
| - Logical channel identity                 | 2                                   |         | RCS7-118 |
| - Signalling RB information to setup       | (AM DCCH for NAS_DT High priority)  |         | RCS7-119 |
| - RB identity                              | 3                                   |         | RCS7-120 |
| - CHOICE RLC info type                     | RLC info                            |         | RCS7-121 |
| - CHOICE Uplink RLC mode                   | AM RLC                              |         | RCS7-122 |
| - Transmission RLC discard                 |                                     |         | RCS7-123 |
| - CHOICE SDU discard mode                  | No Discard                          |         | RCS7-124 |
| - MAX_DAT                                  | 15                                  |         | RCS7-125 |
| - Transmission window size                 | 32                                  |         | RCS7-126 |
| - Timer_RST                                | 500                                 |         | RCS7-127 |
| - Max_RST                                  | 1                                   |         | RCS7-128 |
| - Polling info                             |                                     |         | RCS7-129 |
| - Timer_poll_prohibit                      | 200                                 |         | RCS7-130 |
| - Timer_poll                               | 200                                 |         | RCS7-131 |
| - Poll_PDU                                 | Not present                         |         | RCS7-132 |
| - Poll_SDU                                 | 1                                   |         | RCS7-133 |
| - Last transmission PDU poll               | TRUE                                |         | RCS7-134 |
| - Last retransmission PDU poll             | TRUE                                |         | RCS7-135 |
| - Poll_Window                              | 99                                  |         | RCS7-136 |
| - Timer_poll_periodic                      | Not Present                         |         | RCS7-137 |
| - CHOICE Downlink RLC mode                 | AM RLC                              |         | RCS7-138 |
| - In-sequence delivery                     | TRUE                                |         | RCS7-139 |
| - Receiving window size                    | 32                                  |         | RCS7-140 |
| - Downlink RLC status info                 |                                     |         | RCS7-141 |
| - Timer_status_prohibit                    | 200                                 |         | RCS7-142 |
| - Timer_EPC                                | Not Present                         |         | RCS7-143 |
| - Missing PDU indicator                    | TRUE                                |         | RCS7-144 |

| Information Element                        | Value/remark                        | Version | Index    |
|--------------------------------------------|-------------------------------------|---------|----------|
| - Timer_STATUS_periodic                    | Not Present                         |         | RCS7-145 |
| - RB mapping info                          |                                     |         | RCS7-146 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RCS7-147 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS7-148 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-149 |
| - Uplink transport channel type            | DCH                                 |         | RCS7-150 |
| - UL Transport channel identity            | 5                                   |         | RCS7-151 |
| - Logical channel identity                 | 3                                   |         | RCS7-152 |
| - CHOICE RLC size list                     | Configure                           |         | RCS7-153 |
| - MAC logical channel priority             | 3                                   |         | RCS7-154 |
| - Downlink RLC logical channel info        |                                     |         | RCS7-155 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-156 |
| - Downlink transport channel type          | DCH                                 |         | RCS7-157 |
| - DL DCH Transport channel identity        |                                     |         | RCS7-158 |
| - Transport channel identity               | 10                                  |         | RCS7-159 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS7-160 |
| - DL HS-DSCH MAC-d flow identity           | Not Present                         |         | RCS7-161 |
| - Logical channel identity                 | 3                                   |         | RCS7-162 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS7-163 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-164 |
| - Uplink transport channel type            | RACH                                |         | RCS7-165 |
| - UL Transport channel identity            | Not Present                         |         | RCS7-166 |
| - Logical channel identity                 | 3                                   |         | RCS7-167 |
| - CHOICE RLC size list                     | Explicit List                       |         | RCS7-168 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS7-169 |
| - MAC logical channel priority             | 3                                   |         | RCS7-170 |
| - Downlink RLC logical channel info        |                                     |         | RCS7-171 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-172 |
| - Downlink transport channel type          | FACH                                |         | RCS7-173 |
| - DL DCH Transport channel identity        | Not Present                         |         | RCS7-174 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS7-175 |
| - DL HS-DSCH MAC-d flow identity           | Not Present                         |         | RCS7-176 |
| - Logical channel identity                 | 3                                   |         | RCS7-177 |
| - Signalling RB information to setup       | (AM DCCH for NAS_DT Low priority)   |         | RCS7-178 |
| - RB identity                              | 4                                   |         | RCS7-179 |
| - CHOICE RLC info type                     | RLC info                            |         | RCS7-180 |
| - CHOICE Uplink RLC mode                   | AM RLC                              |         | RCS7-181 |
| - Transmission RLC discard                 |                                     |         | RCS7-182 |
| - CHOICE SDU discard mode                  | No discard                          |         | RCS7-183 |
| - MAX_DAT                                  | 15                                  |         | RCS7-184 |
| - Transmission window size                 | 32                                  |         | RCS7-185 |
| - Timer_RST                                | 500                                 |         | RCS7-186 |
| - Max_RST                                  | 1                                   |         | RCS7-187 |
| - Polling info                             |                                     |         | RCS7-188 |
| - Timer_poll_prohibit                      | 200                                 |         | RCS7-189 |
| - Timer_poll                               | 200                                 |         | RCS7-190 |
| - Poll_SDU                                 | 1                                   |         | RCS7-191 |
| - Last transmission PDU poll               | TRUE                                |         | RCS7-192 |
| - Last retransmission PDU poll             | TRUE                                |         | RCS7-193 |
| - Poll_Window                              | 99                                  |         | RCS7-194 |
| - Timer_poll_periodic                      | Not Present                         |         | RCS7-195 |
| - CHOICE Downlink RLC mode                 | AM RLC                              |         | RCS7-196 |
| - In-sequence delivery                     | TRUE                                |         | RCS7-197 |
| - Receiving window size                    | 32                                  |         | RCS7-198 |
| - Downlink RLC status info                 |                                     |         | RCS7-199 |
| - Timer_status_prohibit                    | 200                                 |         | RCS7-200 |
| - Timer_EPC                                | Not Present                         |         | RCS7-201 |
| - Missing PDU indicator                    | TRUE                                |         | RCS7-202 |
| - Timer_STATUS_periodic                    | Not Present                         |         | RCS7-203 |
| - RB mapping info                          |                                     |         | RCS7-204 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RCS7-205 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS7-206 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-207 |
| - Uplink transport channel type            | DCH                                 |         | RCS7-208 |
| - UL Transport channel identity            | 5                                   |         | RCS7-209 |
| - Logical channel identity                 | 4                                   |         | RCS7-210 |
| - CHOICE RLC size list                     | Configure                           |         | RCS7-211 |



| Information Element                                                 | Value/remark                                                                                                         | Version | Index    |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------|----------|
| - MAC logical channel priority                                      | 4                                                                                                                    |         | RCS7-212 |
| - Downlink RLC logical channel info                                 |                                                                                                                      |         | RCS7-213 |
| - Number of RLC logical channels                                    | 1                                                                                                                    |         | RCS7-214 |
| - Downlink transport channel type                                   | DCH                                                                                                                  |         | RCS7-215 |
| - DL DCH Transport channel identity                                 |                                                                                                                      |         | RCS7-216 |
| - Transport channel identity                                        | 10                                                                                                                   |         | RCS7-217 |
| - DL DSCH Transport channel identity                                | Not Present                                                                                                          |         | RCS7-218 |
| - DL HS-DSCH MAC-d flow identity                                    | Not Present                                                                                                          |         | RCS7-219 |
| - Logical channel identity                                          | 4                                                                                                                    |         | RCS7-220 |
| - RLC logical channel mapping indicator                             | Not Present                                                                                                          |         | RCS7-221 |
| - Number of RLC logical channels                                    | 1                                                                                                                    |         | RCS7-222 |
| - Uplink transport channel type                                     | RACH                                                                                                                 |         | RCS7-223 |
| - UL Transport channel identity                                     | Not Present                                                                                                          |         | RCS7-224 |
| - Logical channel identity                                          | 4                                                                                                                    |         | RCS7-225 |
| - CHOICE RLC size list                                              | Explicit List                                                                                                        |         | RCS7-226 |
| - RLC size index                                                    | Reference to clause 6 Parameter Set                                                                                  |         | RCS7-227 |
| - MAC logical channel priority                                      | 4                                                                                                                    |         | RCS7-228 |
| - Downlink RLC logical channel info                                 |                                                                                                                      |         | RCS7-229 |
| - Number of RLC logical channels                                    | 1                                                                                                                    |         | RCS7-230 |
| - Downlink transport channel type                                   | FACH                                                                                                                 |         | RCS7-231 |
| - DL DCH Transport channel identity                                 | Not Present                                                                                                          |         | RCS7-232 |
| - DL DSCH Transport channel identity                                | Not Present                                                                                                          |         | RCS7-233 |
| - DL HS-DSCH MAC-d flow identity                                    | Not Present                                                                                                          |         | RCS7-234 |
| - Logical channel identity                                          | 4                                                                                                                    |         | RCS7-235 |
| - UL Transport channel information for all transport channels       |                                                                                                                      |         | RCS7-236 |
| - PRACH TFCS                                                        | Not Present                                                                                                          |         | RCS7-237 |
| - CHOICE mode                                                       | TDD                                                                                                                  |         | RCS7-238 |
| - Individual UL CCTrCH information                                  |                                                                                                                      |         | RCS7-239 |
| - UL TFCS Identity                                                  |                                                                                                                      |         | RCS7-240 |
| - TFCS ID                                                           | 1                                                                                                                    |         | RCS7-241 |
| - Shared Channel Indicator                                          | FALSE                                                                                                                |         | RCS7-242 |
| - UL TFCS                                                           |                                                                                                                      |         | RCS7-243 |
| - CHOICE TFCS signalling                                            | Normal                                                                                                               |         | RCS7-244 |
| - TFCS Field 1 Information                                          |                                                                                                                      |         | RCS7-245 |
| - CHOICE TFCS representation                                        | Complete reconfiguration                                                                                             |         | RCS7-246 |
| - TFCS complete reconfiguration                                     |                                                                                                                      |         | RCS7-247 |
| - CHOICE CTFC Size                                                  | Configured, Number of bits used must be enough to cover all combinations of CTFC from clause 6.11.5.4 Parameter Set. |         | RCS7-248 |
| - CTFC information                                                  | This IE is repeated for TFC numbers and reference to clause 6.11.5.4 Parameter Set                                   |         | RCS7-249 |
| - CTFC                                                              | Reference to clause 6.11.5.4 Parameter Set                                                                           |         | RCS7-250 |
| - Power offset Information                                          |                                                                                                                      |         | RCS7-251 |
| - CHOICE Gain Factors                                               | Computed Gain Factors(The last TFC is set to Signalled Gain Factors)                                                 |         | RCS7-252 |
| - Reference TFC ID                                                  | 0, Integer(0.. 3)                                                                                                    |         | RCS7-253 |
| - CHOICE mode                                                       | TDD                                                                                                                  |         | RCS7-254 |
| - TFC subset                                                        | Not present. Default value is the complete existing set of transport format combinations                             |         | RCS7-255 |
| - TFC subset list                                                   | Not present                                                                                                          |         | RCS7-256 |
| - DL Transport channel information common for all transport channel |                                                                                                                      |         | RCS7-257 |
| - SCCPCH TFCS                                                       | Not Present                                                                                                          |         | RCS7-258 |
| - CHOICE mode                                                       | TDD                                                                                                                  |         | RCS7-259 |
| - Individual DL CCTrCH information                                  |                                                                                                                      |         | RCS7-260 |
| - DL TFCS Identity                                                  |                                                                                                                      |         | RCS7-261 |
| - TFCS ID                                                           | 1                                                                                                                    |         | RCS7-262 |
| - Shared Channel Indicator                                          | FALSE                                                                                                                |         | RCS7-263 |
| - CHOICE DL parameters                                              | Same as UL                                                                                                           |         | RCS7-264 |
| - UL DCH TFCS Identity                                              | 1                                                                                                                    |         | RCS7-265 |
| - Shared Channel Indicator                                          | FALSE                                                                                                                |         | RCS7-266 |
| Frequency info                                                      | Not Present                                                                                                          |         | RCS7-267 |
| DTX-DRX timing information                                          | Not Present                                                                                                          | Rel-7   | RCS7-268 |
| DTX-DRX information                                                 | Not Present                                                                                                          | Rel-7   | RCS7-269 |
| HS-SCCH less information                                            | Not Present                                                                                                          | Rel-7   | RCS7-270 |

| Information Element                             | Value/remark                                                   | Version | Index    |
|-------------------------------------------------|----------------------------------------------------------------|---------|----------|
| MIMO parameters                                 | Not Present                                                    | Rel-7   | RCS7-271 |
| Maximum allowed UL TX power                     | Not Present. Default value is the existing maximum UL TX power |         | RCS7-272 |
| Uplink DPCH info                                | Not Present                                                    |         | RCS7-273 |
| E-DCH info                                      | Not Present                                                    | Rel-6   | RCS7-274 |
| Downlink HS-PDSCH information                   | Not Present                                                    | Rel-6   | RCS7-275 |
| Downlink information common for all radio links | Not Present                                                    |         | RCS7-276 |
| Downlink information for each radio link list   | Not Present                                                    |         | RCS7-277 |

## Contents of RRC CONNECTION SETUP COMPLETE message: AM

| Information Element                                                                               | Value/remark                                                                                                                              | Version |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message Type                                                                                      |                                                                                                                                           |         |
| RRC transaction identifier                                                                        | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION SETUP message. |         |
| START list                                                                                        | This IE is checked to see if it is present.                                                                                               |         |
| UE radio access capability                                                                        |                                                                                                                                           |         |
| - Access stratum release indicator                                                                | Not checked                                                                                                                               |         |
| - DL capability with simultaneous HS-DSCH configuration                                           | Not checked                                                                                                                               | Rel-5   |
| - PDCP capability                                                                                 | Not checked                                                                                                                               |         |
| - RLC capability                                                                                  | Not checked                                                                                                                               |         |
| - Transport channel capability                                                                    | Not checked                                                                                                                               |         |
| - RF capability FDD                                                                               | Not checked                                                                                                                               |         |
| - RF capability TDD                                                                               | Not checked                                                                                                                               | Rel-4   |
| - RF capability TDD 1.28 Mcps                                                                     | Not checked                                                                                                                               | Rel-4   |
| - Physical channel capability                                                                     | Not checked                                                                                                                               |         |
| - UE multi-mode/multi-RAT capability                                                              | Not checked                                                                                                                               |         |
| - Security capability                                                                             |                                                                                                                                           |         |
| - Ciphering algorithm capability                                                                  |                                                                                                                                           |         |
| >UEA0                                                                                             | TRUE                                                                                                                                      |         |
| >UEA1                                                                                             | To be checked against PICS                                                                                                                |         |
| >UEA2                                                                                             | To be checked against PICS                                                                                                                | Rel-7   |
| - Integrity protection algorithm capability                                                       |                                                                                                                                           |         |
| >UIA1                                                                                             | TRUE                                                                                                                                      |         |
| >UIA2                                                                                             | To be checked against PICS                                                                                                                | Rel-7   |
| - UE positioning capability                                                                       | Not checked                                                                                                                               |         |
| - Measurement capability                                                                          | Not checked                                                                                                                               |         |
| - Measurement capability TDD                                                                      | Not checked                                                                                                                               | Rel-8   |
| - Device type                                                                                     | Not checked                                                                                                                               | Rel-6   |
| - Support for System Information Block type 11bis                                                 | Not checked                                                                                                                               | Rel-6   |
| - Support for F-DPCH                                                                              | Not checked                                                                                                                               | Rel-6   |
| - MAC-ehs support                                                                                 | To be checked against requirement if specified                                                                                            | Rel-7   |
| - UE specific capability Information LCR TDD                                                      | Not checked                                                                                                                               | Rel-7   |
| - Support for E-DPCCH Power Boosting                                                              | Not checked                                                                                                                               | Rel-7   |
| - Support of common E-DCH                                                                         | To be checked against requirement if specified                                                                                            | Rel-8   |
| - Support of MAC-i/is                                                                             | To be checked against requirement if specified                                                                                            | Rel-8   |
| - Support of SPS operation                                                                        | To be checked against requirement if specified                                                                                            | Rel-8   |
| - Support of Control Channel DRX operation                                                        | To be checked against requirement if specified                                                                                            | Rel-8   |
| - Support of CSG                                                                                  | To be checked against requirement if specified                                                                                            | Rel-8   |
| - Support for Two DRX schemes in URA_PCH and CELL_PCH                                             | Not checked                                                                                                                               | Rel-7   |
| - Support for E-DPDCH power interpolation formula                                                 | Not checked                                                                                                                               | Rel-7   |
| - Support for absolute priority based cell re-selection in UTRAN                                  | To be checked against requirement if specified                                                                                            | Rel-8   |
| - Support of MU-MIMO                                                                              | To be checked against requirement if specified                                                                                            | Rel-10  |
| - Radio Access Capability Band Combination List                                                   | To be checked against requirement if specified                                                                                            | Rel-9   |
| - Support of TX Diversity on DL Control Channels by MIMO Capable UE when MIMO operation is active | To be checked against requirement if specified                                                                                            | Rel-7   |
| - Support of enhanced TS0                                                                         | To be checked against requirement if specified                                                                                            | Rel-9   |
| - Support for cell-specific Tx diversity configuration for dual-cell operation                    | To be checked against requirement if specified                                                                                            | Rel-8   |
| - CSG proximity indication capability                                                             | To be checked against requirement if specified                                                                                            | Rel-9   |
| - Neighbour Cell SI acquisition capability                                                        | To be checked against requirement if specified                                                                                            | Rel-9   |
| - Extended measurements Support                                                                   | To be checked against requirement if specified                                                                                            | Rel-9   |

|                                                                |                                                |        |
|----------------------------------------------------------------|------------------------------------------------|--------|
| - Support for dual cell with MIMO operation in different bands | To be checked against requirement if specified | Rel-10 |
| - UE based network performance measurements parameters         | To be checked against requirement if specified | Rel-10 |
| - Support of UTRAN ANR                                         | To be checked against requirement if specified | Rel-10 |
| UE radio access capability extension                           | Not checked                                    |        |
| UE system specific capability                                  | Not checked                                    |        |
| Deferred measurement control reading                           | Not checked                                    | Rel-7  |
| Logged Meas Available                                          | Not checked                                    | Rel-10 |
| ANR Logging Results Available                                  | Not checked                                    | Rel-10 |
| Connection Establishment Failure Info Available                | Not checked                                    | Rel-11 |

## Contents of SECURITY MODE COMMAND message: AM

| Information Element                                    | Condition | Value/remark                                                                                                                                                                                                        |
|--------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                           | A1, A2    | Arbitrarily selects an integer between 0 and 3                                                                                                                                                                      |
| RRC transaction identifier                             |           |                                                                                                                                                                                                                     |
| Integrity check info                                   |           |                                                                                                                                                                                                                     |
| - Message authentication code                          |           | Set to an arbitrarily selected 32-bits integer. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.                                                                           |
| - RRC Message Sequence Number                          |           | Set to an arbitrarily selected integer between 0 and 15                                                                                                                                                             |
| Security capability                                    |           |                                                                                                                                                                                                                     |
| - Ciphering algorithm capability                       |           | If ciphering is not indicated to be active on IXIT statements in 3GPP TS 34.123-2 [3], set this IE to TRUE.                                                                                                         |
| - UEA0                                                 |           | If ciphering is indicated to be active on IXIT statements in 3GPP TS 34.123-2 [3], set this IE to TRUE.                                                                                                             |
| - UEA1                                                 |           | FALSE                                                                                                                                                                                                               |
| - Spare                                                |           | 00000000000000010B (UIA1)                                                                                                                                                                                           |
| - Integrity protection algorithm capability            |           | TRUE                                                                                                                                                                                                                |
| - UIA1                                                 |           | FALSE                                                                                                                                                                                                               |
| - Spare                                                |           |                                                                                                                                                                                                                     |
| Ciphering mode info                                    |           | This presence of this IE is dependent on IXIT statements in 3GPP TS 34.123-2 [3]. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted. |
| - Ciphering mode command                               |           | Start/restart                                                                                                                                                                                                       |
| - Ciphering algorithm                                  |           | Use the same ciphering algorithm specified in "ciphering algorithm capability" IE in this message.                                                                                                                  |
| - Ciphering activation time for DPCH                   |           | Not Present                                                                                                                                                                                                         |
| - Radio bearer downlink ciphering activation time info |           |                                                                                                                                                                                                                     |
| - Radio bearer activation time                         |           |                                                                                                                                                                                                                     |
| - RB identity                                          |           | 1                                                                                                                                                                                                                   |
| - RLC sequence number                                  |           | Current RLC SN+2                                                                                                                                                                                                    |
| - RB identity                                          |           | 2                                                                                                                                                                                                                   |
| - RLC sequence number                                  |           | Current RLC SN+2                                                                                                                                                                                                    |
| - RB identity                                          |           | 3                                                                                                                                                                                                                   |
| - RLC sequence number                                  |           | Current RLC SN + 2                                                                                                                                                                                                  |
| - RB identity                                          |           | 4                                                                                                                                                                                                                   |
| - RLC sequence number                                  |           | Current RLC SN + 2                                                                                                                                                                                                  |
| Integrity protection mode info                         |           |                                                                                                                                                                                                                     |
| - Integrity protection mode command                    |           | Start                                                                                                                                                                                                               |
| - Downlink integrity protection activation info        |           | Not Present                                                                                                                                                                                                         |
| - Integrity protection algorithm                       |           | UIA1                                                                                                                                                                                                                |
| - Integrity protection initialisation number           |           | SS selects an arbitrary 32 bits number for FRESH                                                                                                                                                                    |
| CN domain identity                                     |           | Supported domain                                                                                                                                                                                                    |
| UE system specific security capability                 | A1        | Not Checked                                                                                                                                                                                                         |
| UE system specific security capability                 | A2        |                                                                                                                                                                                                                     |
| - Inter-RAT UE security capability                     |           |                                                                                                                                                                                                                     |
| - CHOICE system                                        |           | GSM                                                                                                                                                                                                                 |
| - GSM security capability                              |           | The indicated algorithms must be the same as                                                                                                                                                                        |

| Information Element | Condition | Value/remark                                                                                                                              |
|---------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|
|                     |           | the algorithms supported by the UE as indicated in the IE " UE system specific capability " in the RRC CONNECTION SETUP COMPLETE message. |

| Condition | Explanation           |
|-----------|-----------------------|
| A1        | UE not supporting GSM |
| A2        | UE supporting GSM     |

Contents of SECURITY MODE COMPLETE message: AM

| Information Element                                | Value/remark                                                                                                                                                                                         |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                                       | The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message.                                                           |
| RRC transaction identifier                         |                                                                                                                                                                                                      |
| Integrity check info                               | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - Message authentication code                      |                                                                                                                                                                                                      |
| - RRC Message sequence number                      | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| Uplink integrity protection activation info        | Not checked.                                                                                                                                                                                         |
| Radio bearer uplink ciphering activation time info | If ciphering is not activated in SECURITY MODE COMMAND message, this IE must be absent. Else, SS checks this IE for the presence of activation times for all ciphered uplink RLC-UM and RLC-AM RBs.  |

Contents of UPLINK DIRECT TRANSFER message: AM

| Information Element           | Value/remark                                                                                                                                                                                         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                  | This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| Integrity check info          |                                                                                                                                                                                                      |
| - Message authentication code | This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.                                                                                                     |
| - RRC Message sequence number |                                                                                                                                                                                                      |
| CN domain identity            | Checked to see if set to supported CN domain as specified in the IXIT statements                                                                                                                     |
| NAS message                   | Set according to that indicated in specific message content clause                                                                                                                                   |
| Measured results on RACH      | Not checked                                                                                                                                                                                          |

### 9.1.3 Default RRC Message Contents for MBSFN (TDD)

Contents of MBMS GENERAL INFORMATION message: UM (3.84 Mcps TDD)

| Information Element                  | Condition | Value/remark     | Version |
|--------------------------------------|-----------|------------------|---------|
| Message type                         |           |                  | Rel-6   |
| MBMS preferred frequency information |           | Not Present      | Rel-6   |
| MBMS timers and counters             |           |                  | Rel-6   |
| - T318                               |           | Not Present (MD) |         |
| MICH configuration information       |           |                  | Rel-6   |
| - MICH Power offset                  |           | 0dB              |         |
| - CHOICE <i>mode</i>                 |           | TDD              |         |
| - Timeslot Number                    |           | 0                |         |
| - Midamble shift and burst type      |           |                  |         |
| - CHOICE <i>TDD option</i>           |           | 3.84 Mcps        |         |
| - CHOICE Burst Type                  |           | MBSFN Burst Type | Rel-7   |

| Information Element                         | Condition | Value/remark                                              | Version |
|---------------------------------------------|-----------|-----------------------------------------------------------|---------|
| - CHOICE TDD option                         |           | 3.84 Mcps TDD                                             |         |
| - Channelisation code                       |           | 16/1                                                      |         |
| - Repetition period/length                  |           | (16,2)                                                    |         |
| - Offset                                    |           | 14                                                        |         |
| - MBMS Notification indicator length        |           | Not Present (MD - default value = 4)                      |         |
| Cell group identity                         |           | '000000000001'                                            | Rel-6   |
| Default MSCH configuration information      |           | Not Present                                               | Rel-6   |
| Indicate changes in MBMS Selected Services  |           | Not Present (MD - default value = FALSE)                  | Rel-6   |
| MBSFN inter frequency neighbour list        |           |                                                           | Rel-7   |
| - MBSFN frequency                           |           |                                                           |         |
| - CHOICE <i>mode</i>                        |           | TDD                                                       |         |
| - UARFCN (Nt)                               | A1        | Refer to clause 5.1 "Test frequencies" for frequency "f2" |         |
| - UARFCN (Nt)                               | A2        | Refer to clause 5.1 "Test frequencies" for frequency "f1" |         |
| - CHOICE <i>MBSFN services notification</i> |           | MBSFN services notified                                   |         |
| - no data                                   |           |                                                           |         |

| Condition | Explanation                                                                                      |
|-----------|--------------------------------------------------------------------------------------------------|
| A1        | This IE is needed for cells on frequency "f1" (by default Cell 31, Cell 32, Cell 37 and Cell 38) |
| A2        | This IE is needed for cells on frequency "f2" (by default Cell 33, Cell 34, Cell 35 and Cell 36) |

Contents of MBMS GENERAL INFORMATION message: UM (1.28 Mcps TDD)

| Information Element                         | Condition | Value/remark                                              | Version |
|---------------------------------------------|-----------|-----------------------------------------------------------|---------|
| Message type                                |           |                                                           | Rel-6   |
| MBMS preferred frequency information        |           | Not Present                                               | Rel-6   |
| MBMS timers and counters                    |           |                                                           | Rel-6   |
| - T318                                      |           | Not Present (MD)                                          |         |
| MICH configuration information              |           |                                                           | Rel-6   |
| - MICH Power offset                         |           | 0dB                                                       |         |
| - CHOICE <i>mode</i>                        |           | TDD                                                       |         |
| - Timeslot Number                           |           | 1                                                         |         |
| - Midamble shift and burst type             |           |                                                           |         |
| - CHOICE <i>TDD option</i>                  |           | 1.28 Mcps                                                 |         |
| - Codes list                                |           |                                                           | Rel-7   |
| - Channelisation code                       |           | 16/1                                                      |         |
| - MBSFN Special Time Slot                   |           | TS7                                                       |         |
| - Repetition period/length                  |           | (16,2)                                                    |         |
| - Offset                                    |           | 14                                                        |         |
| - MBMS Notification indicator length        |           | Not Present (MD - default value = 4)                      |         |
| Cell group identity                         |           | '000000000001'                                            | Rel-6   |
| Default MSCH configuration information      |           | Not Present                                               | Rel-6   |
| Indicate changes in MBMS Selected Services  |           | Not Present (MD - default value = FALSE)                  | Rel-6   |
| MBSFN inter frequency neighbour list        |           |                                                           | Rel-7   |
| - MBSFN frequency                           |           |                                                           |         |
| - CHOICE <i>mode</i>                        |           | TDD                                                       |         |
| - UARFCN (Nt)                               | A1        | Refer to clause 5.1 "Test frequencies" for frequency "f2" |         |
| - UARFCN (Nt)                               | A2        | Refer to clause 5.1 "Test frequencies" for frequency "f1" |         |
| - CHOICE <i>MBSFN services notification</i> |           | MBSFN services notified                                   |         |
| - no data                                   |           |                                                           |         |

| Condition | Explanation                                                                                      |
|-----------|--------------------------------------------------------------------------------------------------|
| A1        | This IE is needed for cells on frequency "f1" (by default Cell 31, Cell 32, Cell 37 and Cell 38) |
| A2        | This IE is needed for cells on frequency "f2" (by default Cell 33, Cell 34, Cell 35 and Cell 36) |

Contents of MBMS GENERAL INFORMATION message: UM (7.68 Mcps TDD)

| Information Element                         | Condition | Value/remark                                              | Version |
|---------------------------------------------|-----------|-----------------------------------------------------------|---------|
| Message type                                |           |                                                           | Rel-6   |
| MBMS preferred frequency information        |           | Not Present                                               | Rel-6   |
| MBMS timers and counters                    |           |                                                           | Rel-6   |
| - T318                                      |           | Not Present (MD)                                          |         |
| MICH configuration information              |           |                                                           | Rel-6   |
| - MICH Power offset                         |           | 0dB                                                       |         |
| - CHOICE <i>mode</i>                        |           | TDD                                                       |         |
| - Timeslot Number                           |           | 0                                                         |         |
| - Midamble shift and burst type             |           |                                                           |         |
| - CHOICE <i>TDD option</i>                  |           | 7.68 Mcps                                                 |         |
| - CHOICE Burst Type                         |           | MBSFN Burst Type                                          | Rel-7   |
| - CHOICE TDD option                         |           | 7.68 Mcps TDD                                             |         |
| - Channelisation code                       |           | 32/1                                                      |         |
| - Repetition period/length                  |           | (16,2)                                                    |         |
| - Offset                                    |           | 14                                                        |         |
| - MBMS Notification indicator length        |           | Not Present (MD - default value = 4)                      |         |
| Cell group identity                         |           | '000000000001'                                            | Rel-6   |
| Default MSCH configuration information      |           | Not Present                                               | Rel-6   |
| Indicate changes in MBMS Selected Services  |           | Not Present (MD - default value = FALSE)                  | Rel-6   |
| MBSFN inter frequency neighbour list        |           |                                                           | Rel-7   |
| - MBSFN frequency                           |           |                                                           |         |
| - CHOICE <i>mode</i>                        |           | TDD                                                       |         |
| - UARFCN (Nt)                               | A1        | Refer to clause 5.1 "Test frequencies" for frequency "f2" |         |
| - UARFCN (Nt)                               | A2        | Refer to clause 5.1 "Test frequencies" for frequency "f1" |         |
| - CHOICE <i>MBSFN services notification</i> |           | MBSFN services notified                                   |         |
| - no data                                   |           |                                                           |         |

| Condition | Explanation                                                                                      |
|-----------|--------------------------------------------------------------------------------------------------|
| A1        | This IE is needed for cells on frequency "f1" (by default Cell 31, Cell 32, Cell 37 and Cell 38) |
| A2        | This IE is needed for cells on frequency "f2" (by default Cell 33, Cell 34, Cell 35 and Cell 36) |

Contents of MBMS GENERAL INFORMATION message: UM (3.84 Mcps TDD IMB)

| Information Element                        | Condition | Value/remark                                                                                                | Version |
|--------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------|---------|
| Message type                               |           |                                                                                                             | Rel-6   |
| MBMS preferred frequency information       |           | Not Present                                                                                                 | Rel-6   |
| MBMS timers and counters                   |           |                                                                                                             | Rel-6   |
| - T318                                     |           | Not Present (MD)                                                                                            | Rel-6   |
| MICH configuration information             |           |                                                                                                             | Rel-6   |
| - MICH Power offset                        |           | -5dB                                                                                                        | Rel-6   |
| - CHOICE Mode                              |           | 3.84 Mcps TDD MBSFN IMB                                                                                     | Rel-6   |
| - Channelisation code                      |           | Reference to clause 5.5.2.1 "Downlink physical channels code allocation for signalling (3.84 Mcps TDD IMB)" | Rel-6   |
| - Number of NI per frame                   |           | 18                                                                                                          | Rel-6   |
| - STTD indicator                           |           | FALSE                                                                                                       | Rel-6   |
| Cell group identity                        |           | '000000000001' ( cells with mid range UARFCN )                                                              | Rel-6   |
| Default MSCH configuration information     |           | Not Present                                                                                                 | Rel-6   |
| Indicate changes in MBMS Selected Services |           | Not Present (MD-default value = FALSE)                                                                      | Rel-6   |
| MBSFN inter frequency neighbour list       |           |                                                                                                             |         |
| MBSFN inter frequency neighbour list       |           |                                                                                                             | Rel-7   |
| >MBSFN frequency                           |           |                                                                                                             | Rel-7   |
| >>CHOICE mode                              |           | TDD                                                                                                         | Rel-7   |
| >>>UARFCN (Nt)                             | A1        | Refer to clause 5.1 "Test frequencies" for frequency "f2"                                                   | Rel-7   |
| >>>UARFCN (Nt)                             | A2        | Refer to clause 5.1 "Test frequencies" for frequency "f1"                                                   | Rel-7   |
| >IMB indication                            |           | TRUE                                                                                                        | Rel-8   |
| >CHOICE MBSFN services notification        |           | MBSFN services notified                                                                                     | Rel-7   |
| >> no data                                 |           |                                                                                                             |         |

| Condition | Explanation                                                        |
|-----------|--------------------------------------------------------------------|
| A1        | This IE is needed for cells on frequency "f1" (by default Cell 31) |
| A2        | This IE is needed for cells on frequency "f2" (by default Cell 33) |

Contents of MBMS MODIFIED SERVICES INFORMATION message: UM

| Information Element                | Value/remark                                                                                                                    | Version |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------|
| Message type                       |                                                                                                                                 | Rel-6   |
| Modified service list              | 1 entry per modified service - maximum 8. If no services are modified in the current modification period this IE is Not Present | Rel-6   |
| - MBMS Transmission identity       |                                                                                                                                 |         |
| - MBMS Service ID                  |                                                                                                                                 |         |
| - MBMS Service ID                  | Set to the value of the service ID being modified (e.g. '000001')                                                               |         |
| - CHOICE <i>PLMN identity</i>      | SameAs-MIB                                                                                                                      |         |
| - no data                          |                                                                                                                                 |         |
| - MBMS Session ID                  | '01'                                                                                                                            |         |
| - MBMS required UE action          | Acquire PTM RB info                                                                                                             |         |
| - MBMS preferred frequency         | Not Present                                                                                                                     |         |
| - Continue MCCH reading            | FALSE                                                                                                                           |         |
| - MBSFN cluster frequency          | Not Present (MD)                                                                                                                | Rel-7   |
| MBMS re- acquire MCCH              | Not Present                                                                                                                     | Rel-6   |
| MBMS dynamic persistence level     | Not Present                                                                                                                     | Rel-6   |
| End of modified MCCH information   | Not Present                                                                                                                     | Rel-6   |
| MBMS number of neighbour cells     | 0                                                                                                                               | Rel-6   |
| MBMS all unmodified p-t-m services | Not Present                                                                                                                     | Rel-6   |
| MBMS p-t-m activation time         | Set to the 11 LSB of the first SFN of the next modification period.                                                             | Rel-6   |
| MIB Value tag                      | Not Present                                                                                                                     | Rel-7   |



Contents of MBMS UNMODIFIED SERVICES INFORMATION message: UM (Mixed Local/National carrier)

| Information Element          | Value/remark                                        | Version |
|------------------------------|-----------------------------------------------------|---------|
| Message type                 |                                                     | Rel-6   |
| Unmodified service list      | 8 services by default. See NOTE 1.                  | Rel-6   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (National Service 5)                                |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | Not Present (MD)                                    | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (National Service 6)                                |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | Not Present (MD)                                    | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (Local Service 1)                                   |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | Not Present (MD)                                    | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (Local Service 2)                                   |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | Not Present (MD)                                    | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (National Service 1)                                |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | 1                                                   | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (National Service 2)                                |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | 1                                                   | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (National Service 3)                                |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |

| Information Element          | Value/remark                                        | Version |
|------------------------------|-----------------------------------------------------|---------|
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | 1                                                   | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (National Service 4)                                |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | 1                                                   | Rel-7   |

| Condition | Information Element       | Value/remark          | Explanation                                                        |
|-----------|---------------------------|-----------------------|--------------------------------------------------------------------|
| A1        | - MBMS Session ID         | Not Present           | Condition used when the session is currently not being transmitted |
|           | - MBMS required UE action | 'None'                |                                                                    |
| A2        | - MBMS Session ID         | '01'                  | Condition used when the session is currently ongoing               |
|           | - MBMS required UE action | 'Acquire PTM RB info' |                                                                    |

NOTE 1: Any service (as identified by MBMS Service ID) which is included in MBMS MODIFIED SERVICES INFORMATION message in the current modification period shall not have an unmodified service entry in the list of services in this message.

NOTE 2: By default the Mixed Local/National Carrier (on frequency "f2") is broadcast by Cell 33, Cell 34, Cell 35 and Cell 36.

Contents of MBMS UNMODIFIED SERVICES INFORMATION message: UM (Dedicated National carrier)

| Information Element          | Value/remark                                        | Version |
|------------------------------|-----------------------------------------------------|---------|
| Message type                 |                                                     | Rel-6   |
| Unmodified service list      | 8 services by default. See NOTE 1.                  | Rel-6   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (National Service 1)                                |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | Not Present (MD)                                    | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (National Service 2)                                |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | Not Present (MD)                                    | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (National Service 3)                                |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | Not Present (MD)                                    | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (National Service 4)                                |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | Not Present (MD)                                    | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (National Service 5)                                |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | 1                                                   | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (National Service 6)                                |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | 1                                                   | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (Local Service 1)                                   |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |

| Information Element          | Value/remark                                        | Version |
|------------------------------|-----------------------------------------------------|---------|
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | 1                                                   | Rel-7   |
| - MBMS Transmission identity |                                                     |         |
| - MBMS Service ID            | (Local Service 2)                                   |         |
| - MBMS Service ID            | Refer to clause 11.2.4 "MBSFN service availability" |         |
| - CHOICE PLMN identity       | SameAs-MIB                                          |         |
| - no data                    |                                                     |         |
| - MBMS Session ID            | Value set according to table for condition A1 or A2 |         |
| - MBMS required UE action    | Value set according to table for condition A1 or A2 |         |
| - MBMS preferred frequency   | Not Present                                         |         |
| - MBSFN cluster frequency    | 1                                                   | Rel-7   |

| Condition | Information Element       | Value/remark          | Explanation                                                        |
|-----------|---------------------------|-----------------------|--------------------------------------------------------------------|
| A1        | - MBMS Session ID         | Not Present           | Condition used when the session is currently not being transmitted |
|           | - MBMS required UE action | 'None'                |                                                                    |
| A2        | - MBMS Session ID         | '01'                  | Condition used when the session is currently ongoing               |
|           | - MBMS required UE action | 'Acquire PTM RB info' |                                                                    |

NOTE 1: Any service (as identified by MBMS Service ID) which is included in MBMS MODIFIED SERVICES INFORMATION message in the current modification period shall not have an unmodified service entry in the list of services in this message.

NOTE 2: By default the Dedicated National Carrier (on frequency "f1") is broadcast by Cell 31, Cell 32, Cell 37 and Cell 38.

Contents of MBMS UNMODIFIED SERVICES INFORMATION message: UM (3.84 Mcps TDD IMB)

| Information Element | Value/remark | Version |
|---------------------|--------------|---------|
|---------------------|--------------|---------|

|                              |                                                              |       |
|------------------------------|--------------------------------------------------------------|-------|
| Message type                 |                                                              | Rel-6 |
| Unmodified services list     | 8 services. See NOTE 1.                                      | Rel-6 |
| - MBMS Transmission identity |                                                              | Rel-6 |
| - MBMS Service ID            | (service1)                                                   |       |
| - MBMS Service ID            | 000001' refer to clause 11.2.4 "MBSFN service availability " | Rel-6 |
| - CHOICE PLMN identity       | SameAs-MIB                                                   | Rel-6 |
| - MBMS Session ID            | Value set according to table for condition A1 or A2          | Rel-6 |
| - MBMS required UE action    | Value set according to table for condition A1 or A2          | Rel-6 |
| - MBMS preferred frequency   | Not Present                                                  | Rel-6 |
| - MBSFN cluster frequency    | Not Present (MD)                                             |       |
| - MBMS Transmission identity |                                                              | Rel-6 |
| - MBMS Service ID            | (service2)                                                   |       |
| - MBMS Service ID            | 000010' refer to clause 11.2.4 "MBSFN service availability"  | Rel-6 |
| - CHOICE PLMN identity       | SameAs-MIB                                                   | Rel-6 |
| - MBMS Session ID            | Value set according to table for condition A1 or A2          | Rel-6 |
| - MBMS required UE action    | Value set according to table for condition A1 or A2          | Rel-6 |
| - MBMS preferred frequency   | Not Present                                                  | Rel-6 |
| - MBSFN cluster frequency    | Not Present (MD)                                             |       |
| - MBMS Transmission identity |                                                              | Rel-6 |
| - MBMS Service ID            | (service3)                                                   |       |
| - MBMS Service ID            | 000011' refer to clause 11.2.4 "MBSFN service availability"  | Rel-6 |
| - CHOICE PLMN identity       | SameAs-MIB                                                   | Rel-6 |
| - MBMS Session ID            | Value set according to table for condition A1 or A2          | Rel-6 |
| - MBMS required UE action    | Value set according to table for condition A1 or A2          | Rel-6 |
| - MBMS preferred frequency   | Not Present                                                  | Rel-6 |
| - MBSFN cluster frequency    | Not Present (MD)                                             |       |
| - MBMS Transmission identity |                                                              | Rel-6 |
| - MBMS Service ID            | (service4)                                                   |       |
| - MBMS Service ID            | 000100' refer to clause 11.2.4 "MBSFN service availability"  | Rel-6 |
| - CHOICE PLMN identity       | SameAs-MIB                                                   | Rel-6 |
| - MBMS Session ID            | Value set according to table for condition A1 or A2          | Rel-6 |
| - MBMS required UE action    | Value set according to table for condition A1 or A2          | Rel-6 |
| - MBMS preferred frequency   | Not Present                                                  | Rel-6 |
| - MBSFN cluster frequency    | Not Present (MD)                                             |       |
| - MBMS Transmission identity |                                                              | Rel-6 |
| - MBMS Service ID            | (service5)                                                   |       |
| - MBMS Service ID            | 000101' refer to clause 11.2.4 "MBSFN service availability"  | Rel-6 |
| - CHOICE PLMN identity       | SameAs-MIB                                                   | Rel-6 |
| - MBMS Session ID            | Value set according to table for condition A1 or A2          | Rel-6 |
| - MBMS required UE action    | Value set according to table for condition A1 or A2          | Rel-6 |
| - MBMS preferred frequency   | Not Present                                                  | Rel-6 |

|                              |                                                             |       |
|------------------------------|-------------------------------------------------------------|-------|
| - MBSFN cluster frequency    | 1                                                           |       |
| - MBMS Transmission identity |                                                             | Rel-6 |
| - MBMS Service ID            | (service6)                                                  |       |
| - MBMS Service ID            | 000110' refer to clause 11.2.4 "MBSFN service availability" | Rel-6 |
| - CHOICE PLMN identity       | SameAs-MIB                                                  | Rel-6 |
| - MBMS Session ID            | Value set according to table for condition A1 or A2         | Rel-6 |
| - MBMS required UE action    | Value set according to table for condition A1 or A2         | Rel-6 |
| - MBMS preferred frequency   | Not Present                                                 | Rel-6 |
| - MBSFN cluster frequency    | 1                                                           |       |
| - MBMS Transmission identity |                                                             | Rel-6 |
| - MBMS Service ID            | (service7)                                                  |       |
| - MBMS Service ID            | 000111' refer to clause 11.2.4 "MBSFN service availability" | Rel-6 |
| - CHOICE PLMN identity       | SameAs-MIB                                                  | Rel-6 |
| - MBMS Session ID            | Value set according to table for condition A1 or A2         | Rel-6 |
| - MBMS required UE action    | Value set according to table for condition A1 or A2         | Rel-6 |
| - MBMS preferred frequency   | Not Present                                                 | Rel-6 |
| - MBSFN cluster frequency    | 1                                                           |       |
| - MBMS Transmission identity |                                                             | Rel-6 |
| - MBMS Service ID            | (service8)                                                  |       |
| - MBMS Service ID            | 001000' refer to clause 11.2.4 "MBSFN service availability" | Rel-6 |
| - CHOICE PLMN identity       | SameAs-MIB                                                  | Rel-6 |
| - MBMS Session ID            | Value set according to table for condition A1 or A2         | Rel-6 |
| - MBMS required UE action    | Value set according to table for condition A1 or A2         | Rel-6 |
| - MBMS preferred frequency   | Not Present                                                 | Rel-6 |
| - MBSFN cluster frequency    | 1                                                           |       |

| Condition | Information Element       | Value/remark          | Explanation                                                        |
|-----------|---------------------------|-----------------------|--------------------------------------------------------------------|
| A1        | - MBMS Session ID         | Not Present           | Condition used when the session is currently not being transmitted |
|           | - MBMS required UE action | 'None'                |                                                                    |
| A2        | - MBMS Session ID         | '01'                  | Condition used when the session is currently ongoing               |
|           | - MBMS required UE action | 'Acquire PTM RB info' |                                                                    |

NOTE 1: Any service (as identified by MBMS Service ID) which is included in MBMS MODIFIED SERVICES INFORMATION message in the current modification period shall not have an unmodified service entry in the list of services in this message.

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (3.84 Mcps)

| Information Element                            | Condition | Value/remark          | Version |
|------------------------------------------------|-----------|-----------------------|---------|
| Message type                                   |           |                       | Rel-6   |
| RB information list                            |           | 2 entries in the list | Rel-6   |
| - RB identity                                  |           |                       |         |
| - MBMS Common RB identity                      |           | 14                    |         |
| - PDCP info                                    |           |                       |         |
| - Support for lossless SRNS relocation         |           | Not Present           |         |
| - Max PDCP SN window size                      |           | Not Present           |         |
| - PDCP PDU header                              |           | absent                |         |
| - Header compression information               |           | Not Present           |         |
| - RLC info                                     |           |                       |         |
| - DL UM RLC LI size                            |           | 15                    |         |
| - DL Duplication Avoidance and Reordering info |           | Not Present           |         |
| - DL Out of sequence delivery info             |           | Not Present           |         |
| - RB identity                                  |           |                       |         |
| - MBMS Common RB identity                      |           | 15                    |         |
| - PDCP info                                    |           |                       |         |
| - Support for lossless SRNS relocation         |           | Not Present           |         |
| - Max PDCP SN window size                      |           | Not Present           |         |
| - PDCP PDU header                              |           | absent                |         |
| - Header compression information               |           | Not Present           |         |

| Information Element                            | Condition | Value/remark                                          | Version |
|------------------------------------------------|-----------|-------------------------------------------------------|---------|
| - RLC info                                     |           |                                                       |         |
| - DL UM RLC LI size                            |           | 15                                                    |         |
| - DL Duplication Avoidance and Reordering info |           | Not Present                                           |         |
| - DL Out of sequence delivery info             |           | Not Present                                           |         |
| TrCh information for each TrCh                 |           | 2 entries in the list                                 | Rel-6   |
| - Transport channel identity                   |           |                                                       |         |
| - MBMS Common TrCh identity                    |           | 1                                                     |         |
| - TFS                                          |           |                                                       |         |
| - CHOICE <i>Transport channel type</i>         |           | Common transport channels                             |         |
| - Dynamic Transport Format Information         |           |                                                       |         |
| - RLC Size                                     |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Number of TBs and TTI List                   |           | (This IE is repeated for each TFI)                    |         |
| - Number of Transport blocks                   |           | Reference to clause 6.10 "Parameter Set"              |         |
| - CHOICE <i>mode</i>                           |           | TDD                                                   |         |
| - Transmission Time Interval                   |           | Not Present                                           |         |
| - CHOICE <i>Logical Channel List</i>           |           | ALL                                                   |         |
| - no data                                      |           |                                                       |         |
| - Semi-static Transport Format information     |           |                                                       |         |
| - Transmission time interval                   |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Type of channel coding                       |           | Turbo                                                 |         |
| - Coding Rate                                  |           | Not Present                                           |         |
| - Rate matching attribute                      |           | Reference to clause 6.10 "Parameter Set"              |         |
| - CRC size                                     |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Transport channel identity                   |           |                                                       |         |
| - MBMS Common TrCh identity                    |           | 2                                                     |         |
| - TFS                                          |           |                                                       |         |
| - CHOICE <i>Transport channel type</i>         |           | Common transport channels                             |         |
| - Dynamic Transport Format Information         |           |                                                       |         |
| - RLC Size                                     |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Number of TBs and TTI List                   |           | (This IE is repeated for each TFI)                    |         |
| - Number of Transport blocks                   |           | Reference to clause 6.10 "Parameter Set"              |         |
| - CHOICE <i>mode</i>                           |           | TDD                                                   |         |
| - Transmission Time Interval                   |           | Not Present                                           |         |
| - CHOICE <i>Logical Channel List</i>           |           | ALL                                                   |         |
| - no data                                      |           |                                                       |         |
| - Semi-static Transport Format information     |           |                                                       |         |
| - Transmission time interval                   |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Type of channel coding                       |           | Turbo                                                 |         |
| - Coding Rate                                  |           | Not Present                                           |         |
| - Rate matching attribute                      |           | Reference to clause 6.10 "Parameter Set"              |         |
| - CRC size                                     |           | Reference to clause 6.10 "Parameter Set"              |         |
| TrCh information for each CCTrCh               |           | Not Present<br>(Default TFCS applies for each CCTrCh) | Rel-6   |
| PhyCh information                              |           | 2 entries in list                                     | Rel-6   |
| - PhyCh identity                               |           |                                                       |         |
| - MBMS Common PhyCh identity                   |           | 23                                                    |         |
| - Secondary CCPCH info MBMS                    |           |                                                       |         |
| - CHOICE <i>mode</i>                           |           | 1.28/3.84 Mcps TDD                                    |         |
| - Common timeslot info MBMS                    |           |                                                       |         |
| - 2 <sup>nd</sup> interleaving mode            |           | Frame                                                 |         |
| - TFCI coding                                  |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Puncturing limit                             |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Downlink Timeslots and Codes                 |           |                                                       |         |
| - First individual timeslot info               |           |                                                       |         |
| - Timeslot number                              |           |                                                       |         |
| - CHOICE <i>TDD option</i>                     |           | 3.84 Mcps                                             |         |
| - Timeslot number                              |           | 1                                                     |         |
| - TFCI existence                               |           | TRUE                                                  |         |
| - Midamble Shift and burst type                |           |                                                       |         |
| - CHOICE <i>TDD option</i>                     |           | 3.84 Mcps TDD                                         |         |
| - CHOICE Burst Type                            |           | MBSFN Burst Type                                      | Rel-7   |
| - no data                                      |           |                                                       | Rel-7   |
| - CHOICE <i>TDD option</i>                     |           | 3.84Mcps TDD                                          |         |



| Information Element                   | Condition | Value/remark                                                                       | Version |
|---------------------------------------|-----------|------------------------------------------------------------------------------------|---------|
| - no data                             |           |                                                                                    |         |
| - First timeslot channelisation codes |           |                                                                                    |         |
| - CHOICE <i>codes representation</i>  |           | Consecutive codes                                                                  |         |
| - First channelisation code           |           | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" |         |
| - Last channelisation code            |           | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" |         |
| - CHOICE <i>more timeslots</i>        | A1        | No more timeslots                                                                  |         |
| - no data                             |           |                                                                                    |         |
| - CHOICE <i>more timeslots</i>        | A2        | Timeslot list                                                                      |         |
| - Additional timeslot list            |           |                                                                                    |         |
| - CHOICE <i>parameters</i>            |           | Same as last                                                                       |         |
| - Timeslot number                     |           |                                                                                    |         |
| - CHOICE <i>TDD option</i>            |           | 3.84 Mcps                                                                          |         |
| - Timeslot number                     |           | 8                                                                                  |         |
| - Modulation                          |           | Reference to clause 6.10 "Parameter Set"                                           | Rel-7   |
| - PhyCh identity                      |           |                                                                                    | Rel-6   |
| - MBMS Common PhyCh identity          |           | 27                                                                                 |         |
| - Secondary CCPCH info MBMS           |           |                                                                                    | Rel-6   |
| - CHOICE <i>mode</i>                  |           | 1.28/3.84 Mcps TDD                                                                 |         |
| - Common timeslot info MBMS           |           |                                                                                    |         |
| - 2 <sup>nd</sup> interleaving mode   |           | Frame                                                                              |         |
| - TFCI coding                         |           | Reference to clause 6.10 "Parameter Set"                                           |         |
| - Puncturing limit                    |           | Reference to clause 6.10 "Parameter Set"                                           |         |
| - Downlink Timeslots and Codes        |           |                                                                                    |         |
| - First individual timeslot info      |           |                                                                                    |         |
| - Timeslot number                     |           |                                                                                    |         |
| - CHOICE <i>TDD option</i>            |           | 3.84 Mcps                                                                          |         |
| - Timeslot number                     |           | 4                                                                                  |         |
| - TFCI existence                      |           | TRUE                                                                               |         |
| - Midamble Shift and burst type       |           |                                                                                    |         |
| - CHOICE <i>TDD option</i>            |           | 3.84 Mcps TDD                                                                      |         |
| - CHOICE Burst Type                   |           | MBSFN Burst Type                                                                   | Rel-7   |
| - no data                             |           |                                                                                    | Rel-7   |
| - CHOICE <i>TDD option</i>            |           | 3.84Mcps TDD                                                                       |         |
| - no data                             |           |                                                                                    |         |
| - First timeslot channelisation codes |           |                                                                                    |         |
| - CHOICE <i>codes representation</i>  |           | Consecutive codes                                                                  |         |
| - First channelisation code           |           | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" |         |
| - Last channelisation code            |           | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" |         |
| - CHOICE <i>more timeslots</i>        | A1        | No more timeslots                                                                  |         |
| - no data                             |           |                                                                                    |         |
| - CHOICE <i>more timeslots</i>        | A2        | Timeslot list                                                                      |         |
| - Additional timeslot list            |           |                                                                                    |         |
| - CHOICE <i>parameters</i>            |           | Same as last                                                                       |         |
| - Timeslot number                     |           |                                                                                    |         |
| - CHOICE <i>TDD option</i>            |           | 3.84 Mcps                                                                          |         |
| - Timeslot number                     |           | 11                                                                                 |         |
| - Modulation                          |           | Reference to clause 6.10 "Parameter Set"                                           | Rel-7   |

| Condition | Explanation                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------|
| A1        | This IE is needed for RBs configured to use one timeslot. Refer to clause 6.10 "Parameter Set"  |
| A2        | This IE is needed for RBs configured to use two timeslots. Refer to clause 6.10 "Parameter Set" |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (1.28 Mcps)

| Information Element                            | Condition | Value/remark          | Version |
|------------------------------------------------|-----------|-----------------------|---------|
| Message type                                   |           |                       | Rel-6   |
| RB information list                            |           | 2 entries in the list | Rel-6   |
| - RB identity                                  |           |                       |         |
| - MBMS Common RB identity                      |           | 14                    |         |
| - PDCP info                                    |           |                       |         |
| - Support for lossless SRNS relocation         |           | Not Present           |         |
| - Max PDCP SN window size                      |           | Not Present           |         |
| - PDCP PDU header                              |           | absent                |         |
| - Header compression information               |           | Not Present           |         |
| - RLC info                                     |           |                       |         |
| - DL UM RLC LI size                            |           | 15                    |         |
| - DL Duplication Avoidance and Reordering info |           | Not Present           |         |
| - DL Out of sequence delivery info             |           | Not Present           |         |
| - RB identity                                  |           |                       |         |
| - MBMS Common RB identity                      |           | 15                    |         |
| - PDCP info                                    |           |                       |         |
| - Support for lossless SRNS relocation         |           | Not Present           |         |
| - Max PDCP SN window size                      |           | Not Present           |         |
| - PDCP PDU header                              |           | absent                |         |
| - Header compression information               |           | Not Present           |         |

| Information Element                            | Condition | Value/remark                                          | Version |
|------------------------------------------------|-----------|-------------------------------------------------------|---------|
| - RLC info                                     |           |                                                       |         |
| - DL UM RLC LI size                            |           | 15                                                    |         |
| - DL Duplication Avoidance and Reordering info |           | Not Present                                           |         |
| - DL Out of sequence delivery info             |           | Not Present                                           |         |
| TrCh information for each TrCh                 |           | 2 entries in the list                                 | Rel-6   |
| - Transport channel identity                   |           |                                                       |         |
| - MBMS Common TrCh identity                    |           | 1                                                     |         |
| - TFS                                          |           |                                                       |         |
| - CHOICE <i>Transport channel type</i>         |           | Common transport channels                             |         |
| - Dynamic Transport Format Information         |           |                                                       |         |
| - RLC Size                                     |           | Reference to clause 6.11 "Parameter Set"              |         |
| - Number of TBs and TTI List                   |           | (This IE is repeated for each TFI)                    |         |
| - Number of Transport blocks                   |           | Reference to clause 6.11 "Parameter Set"              |         |
| - CHOICE <i>mode</i>                           |           | TDD                                                   |         |
| - Transmission Time Interval                   |           | Not Present                                           |         |
| - CHOICE <i>Logical Channel List</i>           |           | ALL                                                   |         |
| - no data                                      |           |                                                       |         |
| - Semi-static Transport Format information     |           |                                                       |         |
| - Transmission time interval                   |           | Reference to clause 6.11 "Parameter Set"              |         |
| - Type of channel coding                       |           | Turbo                                                 |         |
| - Coding Rate                                  |           | Not Present                                           |         |
| - Rate matching attribute                      |           | Reference to clause 6.11 "Parameter Set"              |         |
| - CRC size                                     |           | Reference to clause 6.11 "Parameter Set"              |         |
| - Transport channel identity                   |           |                                                       |         |
| - MBMS Common TrCh identity                    |           | 2                                                     |         |
| - TFS                                          |           |                                                       |         |
| - CHOICE <i>Transport channel type</i>         |           | Common transport channels                             |         |
| - Dynamic Transport Format Information         |           |                                                       |         |
| - RLC Size                                     |           | Reference to clause 6.11 "Parameter Set"              |         |
| - Number of TBs and TTI List                   |           | (This IE is repeated for each TFI)                    |         |
| - Number of Transport blocks                   |           | Reference to clause 6.11 "Parameter Set"              |         |
| - CHOICE <i>mode</i>                           |           | TDD                                                   |         |
| - Transmission Time Interval                   |           | Not Present                                           |         |
| - CHOICE <i>Logical Channel List</i>           |           | ALL                                                   |         |
| - no data                                      |           |                                                       |         |
| - Semi-static Transport Format information     |           |                                                       |         |
| - Transmission time interval                   |           | Reference to clause 6.11 "Parameter Set"              |         |
| - Type of channel coding                       |           | Turbo                                                 |         |
| - Coding Rate                                  |           | Not Present                                           |         |
| - Rate matching attribute                      |           | Reference to clause 6.11 "Parameter Set"              |         |
| - CRC size                                     |           | Reference to clause 6.11 "Parameter Set"              |         |
| TrCh information for each CCTrCh               |           | Not Present<br>(Default TFCS applies for each CCTrCh) | Rel-6   |
| PhyCh information                              |           | 2 entries in list                                     | Rel-6   |
| - PhyCh identity                               |           |                                                       |         |
| - MBMS Common PhyCh identity                   |           | 23                                                    |         |
| - Secondary CCPCH info MBMS                    |           |                                                       |         |
| - CHOICE <i>mode</i>                           |           | 1.28/3.84 Mcps TDD                                    |         |
| - Common timeslot info MBMS                    |           |                                                       |         |
| - 2 <sup>nd</sup> interleaving mode            |           | Frame                                                 |         |
| - TFCI coding                                  |           | Reference to clause 6.11 "Parameter Set"              |         |
| - Puncturing limit                             |           | Reference to clause 6.11 "Parameter Set"              |         |
| - Downlink Timeslots and Codes                 |           |                                                       |         |
| - First individual timeslot info               |           |                                                       |         |
| - Timeslot number                              |           |                                                       |         |
| - CHOICE <i>TDD option</i>                     |           | 1.28 Mcps                                             |         |
| - Timeslot number                              |           | 1                                                     |         |
| - TFCI existence                               |           | TRUE                                                  |         |
| - Midamble Shift and burst type                |           |                                                       |         |
| - CHOICE <i>TDD option</i>                     |           | 1.28 Mcps TDD                                         |         |
| - Midamble Allocation Mode                     |           | Common midamble                                       | Rel-7   |
| - Midamble configuration                       |           | 2                                                     | Rel-7   |
| - CHOICE <i>TDD option</i>                     |           | 1.28Mcps TDD                                          |         |

| Information Element                   | Condition | Value/remark                                                                       | Version |
|---------------------------------------|-----------|------------------------------------------------------------------------------------|---------|
| - Modulation                          |           | Reference to clause 6.11 "Parameter Set"                                           |         |
| - SS-TPC Symbols                      |           | 1                                                                                  |         |
| - Additional TPC-SS Symbols           |           | Not Present                                                                        |         |
| - First timeslot channelisation codes |           |                                                                                    |         |
| - CHOICE <i>codes representation</i>  |           | Consecutive codes                                                                  |         |
| - First channelisation code           |           | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" |         |
| - Last channelisation code            |           | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" |         |
| - CHOICE <i>more timeslots</i>        | A1        | No more timeslots                                                                  |         |
| - no data                             |           |                                                                                    |         |
| - CHOICE <i>more timeslots</i>        | A2        | Timeslot list                                                                      |         |
| - Additional timeslot list            |           |                                                                                    |         |
| - CHOICE <i>parameters</i>            |           | Same as last                                                                       |         |
| - Timeslot number                     |           |                                                                                    |         |
| - CHOICE <i>TDD option</i>            |           | 1.28 Mcps                                                                          |         |
| - Timeslot number                     |           | 2                                                                                  |         |
| - MBSFN Special Time Slot             |           | TS7                                                                                | Rel-7   |
| - Modulation                          |           | Reference to clause 6.11 "Parameter Set"                                           | Rel-7   |
| - PhyCh identity                      |           |                                                                                    | Rel-6   |
| - MBMS Common PhyCh identity          |           | 27                                                                                 |         |
| - Secondary CCPCH info MBMS           |           |                                                                                    | Rel-6   |
| - CHOICE <i>mode</i>                  |           | 1.28/3.84 Mcps TDD                                                                 |         |
| - Common timeslot info MBMS           |           |                                                                                    |         |
| - 2 <sup>nd</sup> interleaving mode   |           | Frame                                                                              |         |
| - TFCI coding                         |           | Reference to clause 6.11 "Parameter Set"                                           |         |
| - Puncturing limit                    |           | Reference to clause 6.11 "Parameter Set"                                           |         |
| - Downlink Timeslots and Codes        |           |                                                                                    |         |
| - First individual timeslot info      |           |                                                                                    |         |
| - Timeslot number                     |           |                                                                                    |         |
| - CHOICE <i>TDD option</i>            |           | 1.28 Mcps                                                                          |         |
| - Timeslot number                     |           | 4                                                                                  |         |
| - TFCI existence                      |           | TRUE                                                                               |         |
| - Midamble Shift and burst type       |           |                                                                                    |         |
| - CHOICE <i>TDD option</i>            |           | 1.28 Mcps TDD                                                                      |         |
| - Midamble Allocation Mode            |           | Common midamble                                                                    |         |
| - Midamble configuration              |           | 2                                                                                  |         |
| - CHOICE <i>TDD option</i>            |           | 1.28Mcps TDD                                                                       |         |
| - Modulation                          |           | Reference to clause 6.11 "Parameter Set"                                           |         |
| - SS-TPC Symbols                      |           | 1                                                                                  |         |
| - Additional TPC-SS Symbols           |           | Not Present                                                                        |         |
| - First timeslot channelisation codes |           |                                                                                    |         |
| - CHOICE <i>codes representation</i>  |           | Consecutive codes                                                                  |         |
| - First channelisation code           |           | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" |         |
| - Last channelisation code            |           | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" |         |
| - CHOICE <i>more timeslots</i>        | A1        | No more timeslots                                                                  |         |
| - no data                             |           |                                                                                    |         |
| - CHOICE <i>more timeslots</i>        | A2        | Timeslot list                                                                      |         |
| - Additional timeslot list            |           |                                                                                    |         |
| - CHOICE <i>parameters</i>            |           | Same as last                                                                       |         |
| - Timeslot number                     |           |                                                                                    |         |
| - CHOICE <i>TDD option</i>            |           | 1.28 Mcps                                                                          |         |
| - Timeslot number                     |           | 4                                                                                  |         |
| - MBSFN Special Time Slot             |           | TS7                                                                                | Rel-7   |
| - Modulation                          |           | Reference to clause 6.11 "Parameter Set"                                           | Rel-7   |
| LCR TDD MBSFN information             |           | Not Present                                                                        | Rel-7   |

| Condition | Explanation                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------|
| A1        | This IE is needed for RBs configured to use one timeslot. Refer to clause 6.11 "Parameter Set"  |
| A2        | This IE is needed for RBs configured to use two timeslots. Refer to clause 6.11 "Parameter Set" |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM (7.68 Mcps)

| Information Element                            | Condition | Value/remark          | Version |
|------------------------------------------------|-----------|-----------------------|---------|
| Message type                                   |           |                       | Rel-7   |
| RB information list                            |           | 2 entries in the list | Rel-7   |
| - RB identity                                  |           |                       |         |
| - MBMS Common RB identity                      |           | 14                    |         |
| - PDCP info                                    |           |                       |         |
| - Support for lossless SRNS relocation         |           | Not Present           |         |
| - Max PDCP SN window size                      |           | Not Present           |         |
| - PDCP PDU header                              |           | absent                |         |
| - Header compression information               |           | Not Present           |         |
| - RLC info                                     |           |                       |         |
| - DL UM RLC LI size                            |           | 15                    |         |
| - DL Duplication Avoidance and Reordering info |           | Not Present           |         |
| - DL Out of sequence delivery info             |           | Not Present           |         |
| - RB identity                                  |           |                       |         |
| - MBMS Common RB identity                      |           | 15                    |         |
| - PDCP info                                    |           |                       |         |
| - Support for lossless SRNS relocation         |           | Not Present           |         |
| - Max PDCP SN window size                      |           | Not Present           |         |
| - PDCP PDU header                              |           | absent                |         |
| - Header compression information               |           | Not Present           |         |

| Information Element                            | Condition | Value/remark                                          | Version |
|------------------------------------------------|-----------|-------------------------------------------------------|---------|
| - RLC info                                     |           |                                                       |         |
| - DL UM RLC LI size                            |           | 15                                                    |         |
| - DL Duplication Avoidance and Reordering info |           | Not Present                                           |         |
| - DL Out of sequence delivery info             |           | Not Present                                           |         |
| TrCh information for each TrCh                 |           | 2 entries in the list                                 | Rel-7   |
| - Transport channel identity                   |           |                                                       |         |
| - MBMS Common TrCh identity                    |           | 1                                                     |         |
| - TFS                                          |           |                                                       |         |
| - CHOICE <i>Transport channel type</i>         |           | Common transport channels                             |         |
| - Dynamic Transport Format Information         |           |                                                       |         |
| - RLC Size                                     |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Number of TBs and TTI List                   |           | (This IE is repeated for each TFI)                    |         |
| - Number of Transport blocks                   |           | Reference to clause 6.10 "Parameter Set"              |         |
| - CHOICE <i>mode</i>                           |           | TDD                                                   |         |
| - Transmission Time Interval                   |           | Not Present                                           |         |
| - CHOICE <i>Logical Channel List</i>           |           | ALL                                                   |         |
| - no data                                      |           |                                                       |         |
| - Semi-static Transport Format information     |           |                                                       |         |
| - Transmission time interval                   |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Type of channel coding                       |           | Turbo                                                 |         |
| - Coding Rate                                  |           | Not Present                                           |         |
| - Rate matching attribute                      |           | Reference to clause 6.10 "Parameter Set"              |         |
| - CRC size                                     |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Transport channel identity                   |           |                                                       |         |
| - MBMS Common TrCh identity                    |           | 2                                                     |         |
| - TFS                                          |           |                                                       |         |
| - CHOICE <i>Transport channel type</i>         |           | Common transport channels                             |         |
| - Dynamic Transport Format Information         |           |                                                       |         |
| - RLC Size                                     |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Number of TBs and TTI List                   |           | (This IE is repeated for each TFI)                    |         |
| - Number of Transport blocks                   |           | Reference to clause 6.10 "Parameter Set"              |         |
| - CHOICE <i>mode</i>                           |           | TDD                                                   |         |
| - Transmission Time Interval                   |           | Not Present                                           |         |
| - CHOICE <i>Logical Channel List</i>           |           | ALL                                                   |         |
| - no data                                      |           |                                                       |         |
| - Semi-static Transport Format information     |           |                                                       |         |
| - Transmission time interval                   |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Type of channel coding                       |           | Turbo                                                 |         |
| - Coding Rate                                  |           | Not Present                                           |         |
| - Rate matching attribute                      |           | Reference to clause 6.10 "Parameter Set"              |         |
| - CRC size                                     |           | Reference to clause 6.10 "Parameter Set"              |         |
| TrCh information for each CCTrCh               |           | Not Present<br>(Default TFCS applies for each CCTrCh) | Rel-7   |
| PhyCh information                              |           | 2 entries in list                                     | Rel-7   |
| - PhyCh identity                               |           |                                                       |         |
| - MBMS Common PhyCh identity                   |           | 23                                                    |         |
| - Secondary CCPCH info MBMS                    |           |                                                       |         |
| - CHOICE <i>mode</i>                           |           | 7.68 Mcps TDD                                         |         |
| - Common timeslot info MBMS                    |           |                                                       |         |
| - 2 <sup>nd</sup> interleaving mode            |           | Frame                                                 |         |
| - TFCI coding                                  |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Puncturing limit                             |           | Reference to clause 6.10 "Parameter Set"              |         |
| - Downlink Timeslots and Codes VHCR            |           |                                                       |         |
| - First Individual timeslot info               |           |                                                       |         |
| - Timeslot number                              |           |                                                       |         |
| - CHOICE <i>TDD option</i>                     |           | 7.68 Mcps option                                      |         |
| Timeslot number                                |           | 1                                                     |         |
| - TFCI existence                               |           | TRUE                                                  |         |
| - Midamble Shift and burst type                |           |                                                       |         |
| - CHOICE <i>TDD option</i>                     |           | 7.68 Mcps TDD                                         |         |
| - CHOICE <i>Burst Type</i>                     |           | MBSFN Burst Type                                      |         |
| - no data                                      |           | Default                                               |         |
| - CHOICE <i>TDD option</i>                     |           | 7.68Mcps TDD                                          |         |

| Information Element                        | Condition | Value/remark                                                                       | Version |
|--------------------------------------------|-----------|------------------------------------------------------------------------------------|---------|
| - no data                                  |           |                                                                                    |         |
| - First timeslot channelisation codes VHCR |           |                                                                                    |         |
| - CHOICE <i>codes representation</i>       |           | Consecutive codes                                                                  |         |
| - First channelisation code                |           | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" |         |
| - Last channelisation code                 |           | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" |         |
| - CHOICE more timeslots                    | A1        | No more timeslots                                                                  |         |
| - no data                                  |           |                                                                                    |         |
| - CHOICE <i>more timeslots</i>             | A2        | Timeslot list                                                                      |         |
| - Additional timeslot list                 |           |                                                                                    |         |
| - CHOICE <i>parameters</i>                 |           | Same as last                                                                       |         |
| - Timeslot number                          |           |                                                                                    |         |
| - CHOICE <i>TDD option</i>                 |           | 7.68 Mcps                                                                          |         |
| - Timeslot number                          |           | 8                                                                                  |         |
| - Modulation                               |           | Reference to clause 6.10 "Parameter Set"                                           |         |
| - PhyCh identity                           |           |                                                                                    |         |
| - MBMS Common PhyCh identity               |           | 27                                                                                 |         |
| - Secondary CCPCH info MBMS                |           |                                                                                    |         |
| - CHOICE <i>mode</i>                       |           | 7.68 Mcps TDD                                                                      |         |
| - Common timeslot info MBMS                |           |                                                                                    |         |
| - 2 <sup>nd</sup> interleaving mode        |           | Frame                                                                              |         |
| - TFCI coding                              |           | Reference to clause 6.10 "Parameter Set"                                           |         |
| - Puncturing limit                         |           | Reference to clause 6.10 "Parameter Set"                                           |         |
| - Downlink Timeslots and Codes VHCR        |           |                                                                                    |         |
| - First Individual timeslot info           |           |                                                                                    |         |
| - Timeslot number                          |           |                                                                                    |         |
| - CHOICE <i>TDD option</i>                 |           | 7.68 Mcps option                                                                   |         |
| - Timeslot number                          |           | 4                                                                                  |         |
| - TFCI existence                           |           | TRUE                                                                               |         |
| - Midamble Shift and burst type            |           |                                                                                    |         |
| - CHOICE <i>TDD option</i>                 |           | 7.68 Mcps TDD                                                                      |         |
| - CHOICE <i>Burst Type</i>                 |           | MBSFN Burst Type                                                                   |         |
| - no data                                  |           | Default                                                                            |         |
| - CHOICE <i>TDD option</i>                 |           | 7.68 Mcps TDD                                                                      |         |
| - no data                                  |           |                                                                                    |         |
| - First timeslot channelisation codes VHCR |           |                                                                                    |         |
| - CHOICE codes representation              |           | Consecutive codes                                                                  |         |
| - First channelisation code                |           | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" |         |
| - Last channelisation code                 |           | Reference clause 5.5.2 "Downlink physical channels code allocation for signalling" |         |
| - CHOICE more timeslots                    | A1        | No more timeslots                                                                  |         |
| - no data                                  |           |                                                                                    |         |
| - CHOICE <i>more timeslots</i>             | A2        | Timeslot list                                                                      |         |
| - Additional timeslot list                 |           |                                                                                    |         |
| - CHOICE <i>parameters</i>                 |           | Same as last                                                                       |         |
| - Timeslot number                          |           |                                                                                    |         |
| - CHOICE <i>TDD option</i>                 |           | 7.68 Mcps                                                                          |         |
| - Timeslot number                          |           | 11                                                                                 |         |
| - Modulation                               |           | Reference to clause 6.10 "Parameter Set"                                           |         |

| Condition | Explanation                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------|
| A1        | This IE is needed for RBs configured to use one timeslot. Refer to clause 6.10 "Parameter Set"  |
| A2        | This IE is needed for RBs configured to use two timeslots. Refer to clause 6.10 "Parameter Set" |

Contents of MBMS GENERAL INFORMATION message: UM (3.84 Mcps TDD IMB)

| Information Element | Condition | Value/remark | Version |
|---------------------|-----------|--------------|---------|
|---------------------|-----------|--------------|---------|

|                                            |    |                                                                                                             |       |
|--------------------------------------------|----|-------------------------------------------------------------------------------------------------------------|-------|
| Message type                               |    |                                                                                                             | Rel-6 |
| MBMS preferred frequency information       |    | Not Present                                                                                                 | Rel-6 |
| MBMS timers and counters                   |    |                                                                                                             | Rel-6 |
| - T318                                     |    | Not Present (MD)                                                                                            | Rel-6 |
| MICH configuration information             |    |                                                                                                             | Rel-6 |
| - MICH Power offset                        |    | -5dB                                                                                                        | Rel-6 |
| - CHOICE Mode                              |    | 3.84 Mcps TDD MBSFN IMB                                                                                     | Rel-6 |
| - Channelisation code                      |    | Reference to clause 5.5.2.1 "Downlink physical channels code allocation for signalling (3.84 Mcps TDD IMB)" | Rel-6 |
| - Number of NI per frame                   |    | 18                                                                                                          | Rel-6 |
| - STTD indicator                           |    | FALSE                                                                                                       | Rel-6 |
| Cell group identity                        |    | '000000000001' ( cells with mid range UARFCN )                                                              | Rel-6 |
| Default MSCH configuration information     |    | Not Present                                                                                                 | Rel-6 |
| Indicate changes in MBMS Selected Services |    | Not Present (MD-default value = FALSE)                                                                      | Rel-6 |
| MBSFN inter frequency neighbour list       |    |                                                                                                             |       |
| MBSFN inter frequency neighbour list       |    |                                                                                                             | Rel-7 |
| >MBSFN frequency                           |    |                                                                                                             | Rel-7 |
| >>CHOICE mode                              |    | TDD                                                                                                         | Rel-7 |
| >>>UARFCN (Nt)                             | A1 | Refer to clause 5.1 "Test frequencies" for frequency "f2"                                                   | Rel-7 |
| >>>UARFCN (Nt)                             | A2 | Refer to clause 5.1 "Test frequencies" for frequency "f1"                                                   | Rel-7 |
| >IMB indication                            |    | TRUE                                                                                                        | Rel-8 |
| >CHOICE MBSFN services notification        |    | MBSFN services notified                                                                                     | Rel-7 |
| >> no data                                 |    |                                                                                                             |       |

| Condition | Explanation                                                        |
|-----------|--------------------------------------------------------------------|
| A1        | This IE is needed for cells on frequency "f1" (by default Cell 31) |
| A2        | This IE is needed for cells on frequency "f2" (by default Cell 33) |



Contents of MBMS CURRENT CELL P-T-M RB INFORMATION message: UM

| Information Element                    | Condition  | Value/remark                                                             | Version |
|----------------------------------------|------------|--------------------------------------------------------------------------|---------|
| Message type                           | A1, A2, A3 |                                                                          | Rel-6   |
| S-CCPCH list                           | A1         | Not Present                                                              | Rel-6   |
| S-CCPCH list                           | A2         | Contains 1 S-CCPCH                                                       | Rel-6   |
| S-CCPCH list                           | A3         | Contains 2 S-CCPCH                                                       | Rel-6   |
| - S-CCPCH identity                     |            | Not Present                                                              |         |
| - Secondary CCPCH info                 | A2, A3     | 23                                                                       |         |
| - MBMS Soft Combining Timing Offset    |            | Not Present                                                              |         |
| - TrCh information common for all TrCh |            | Not Present (MD)                                                         |         |
| - TrCH information list                | A2, A3     |                                                                          |         |
| - TrCh information                     |            | 1                                                                        |         |
| - RB information list                  |            |                                                                          |         |
| - RB information                       |            |                                                                          |         |
| - RB information                       |            | 14                                                                       |         |
| - MBMS short transmission ID           |            | Reference to the service which is being provided on this RB. See Note 1. |         |
| - MBMS logical channel identity        |            | 1                                                                        |         |
| - L1 combining status                  |            | Not Present                                                              |         |
| - MSCH configuration information       |            | Not Present                                                              |         |
| - S-CCPCH identity                     |            | Not Present                                                              |         |
| - Secondary CCPCH info                 | A3         | 27                                                                       |         |
| - MBMS Soft Combining Timing Offset    |            | Not Present                                                              |         |
| - TrCh information common for all TrCh |            | Not Present (MD)                                                         |         |
| - TrCH information list                | A3         |                                                                          |         |
| - TrCh information                     |            | 2                                                                        |         |
| - RB information list                  |            |                                                                          |         |
| - RB information                       |            |                                                                          |         |
| - RB information                       |            | 15                                                                       |         |
| - MBMS short transmission ID           |            | Reference to the service which is being provided on this RB. See Note 1. |         |
| - MBMS logical channel identity        |            | 2                                                                        |         |
| - L1 combining status                  |            | Not Present                                                              |         |
| - MSCH configuration information       |            | Not Present                                                              |         |
| S-CCPCH in SIB type 5                  |            | Not Present                                                              | Rel-6   |
| MBSFN TDM Info List                    |            | Not Present                                                              | Rel-7   |

| Condition | Explanation                     |
|-----------|---------------------------------|
| A1        | No services ongoing or starting |
| A2        | 1 service ongoing or starting   |
| A3        | 2 services ongoing or starting  |

NOTE 1: MBMS short transmission ID is an index to a service in a list of services. The list is compiled by concatenating, in the following order, the lists of services from the MBMS MODIFIED SERVICES INFORMATION message and the MBMS UNMODIFIED SERVICES INFORMATION messages transmitted in the same modification period as this message.

### 9.1.4 Default Message Contents for WLAN interworking

Contents of Router Advertisement message:

| Information Element | Condition | Value/remark  | Version |
|---------------------|-----------|---------------|---------|
| Type                |           | '10000110'B   |         |
| Code                |           | '00000000'B   |         |
| Checksum            |           | Set by SS     |         |
| Cur Hop Limit       |           | '00000000'B   |         |
| M                   |           | Set by the SS |         |
| O                   |           | Set by the SS |         |
| H                   |           | '0'B          |         |

| Information Element | Condition | Value/remark                              | Version |
|---------------------|-----------|-------------------------------------------|---------|
| Prf                 |           | Set by the SS                             |         |
| Prf                 |           | Set by the SS                             |         |
| P                   |           | Set by the SS                             |         |
| Reserved            |           | '00000'B                                  |         |
| Router Lifetime     |           | Set by the SS                             |         |
| Reachable Time      |           | Set by the SS                             |         |
| Retrans Timer       |           | Set by the SS                             |         |
| type                |           | '00000011'B                               |         |
| Length              |           | '00000100'B                               |         |
| Prefix length       |           | Set by the SS                             |         |
| L                   |           | '1'B                                      |         |
| A                   |           | Set by the SS                             |         |
| Valid Lifetime      |           | Set by the SS                             |         |
| Preferred Lifetime  |           | Set by the SS                             |         |
| Prefix              |           | Set according to specific message content |         |

Contents of Binding Update message:

| Information Element              | Condition | Value/remark                                                                                       | Version |
|----------------------------------|-----------|----------------------------------------------------------------------------------------------------|---------|
| IPv4 Source Address              | A1        | UE IPv4 CoA (IPv4 address acquired by UE during network attachment)                                |         |
| IPv4 Destination Address         | A1        | IPv4 of Home Agent discovered during preamble                                                      |         |
| UDP header                       | A1        |                                                                                                    |         |
| Source Port                      | A1        | Set by UE                                                                                          |         |
| Destination port                 | A1        | '0001000001011111'B                                                                                |         |
| IPv6 Source Address              | A1, A2    | IPv6 Home Address configured by the UE from Home Network Prefix assigned to UE during preamble     |         |
| IPv6 Source Address              | A3        | UE IPv6 CoA (IPv6 address acquired by the UE during network attachment)                            |         |
| IPv6 Destination Address         |           | IPv6 of Home Agent discovered during preamble                                                      |         |
| Destination Header               | A3        | IPv6 Home Address configured by the UE from Home Network Prefix assigned to the UE during preamble |         |
| Payload Proto                    |           | '00111011'B                                                                                        |         |
| MH Type                          |           | '00000101'B (Binding Update message)                                                               |         |
| Sequence Number                  |           | Any allowed value                                                                                  |         |
| Lifetime                         |           | Any allowed non-zero value                                                                         |         |
| A                                |           | '1'B                                                                                               |         |
| H                                |           | '1'B                                                                                               |         |
| L                                |           | Not checked                                                                                        |         |
| K                                |           | '1'B                                                                                               |         |
| M                                |           | '0'B                                                                                               |         |
| R                                |           | '1'B                                                                                               |         |
| P                                |           | '0'B                                                                                               |         |
| F                                |           | '0'B                                                                                               |         |
| IPv4 Home Address option         |           | Set according to specific message content                                                          |         |
| Alternate Care-of Address Option |           | Set according to specific message content                                                          |         |

| Condition | Explanation                                     |
|-----------|-------------------------------------------------|
| A1        | UE is in an IPv4 visited network (see RFC 5555) |
| A2        | UE is in an IPv6 home network (see RFC 5555)    |
| A3        | UE is in an IPv6 visited network (see RFC 5555) |

Contents of Binding Acknowledgement message:

| Information Element                 | Condition | Value/remark                                                                                                                                             | Version |
|-------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| IPv4 Source Address                 | A1        | IPv4 Home Agent address                                                                                                                                  |         |
| IPv4 Destination Address            | A1        | Same value as UE IPv4 CoA in IP Source Address from Binding Update                                                                                       |         |
| UDP header                          | A1        |                                                                                                                                                          |         |
| Source Port                         | A1        | '0001000001011111'B                                                                                                                                      |         |
| Destination port                    | A1        | Same as Source port in Binding Update                                                                                                                    |         |
| IPv6 Source Address                 |           | IPv6 Home Agent address                                                                                                                                  |         |
| IPv6 Destination Address            | A3        | Same value as UE IPv6 CoA in IP Source Address from Binding Update                                                                                       |         |
| IPv6 Destination Address            | A1, A2    | IPv6 Home Address                                                                                                                                        |         |
| Routing Header                      | A3        | Same value as UE IPv6 Home Address in Destination Header from Binding Update                                                                             |         |
| Payload Proto                       |           | '00111011'B                                                                                                                                              |         |
| MH Type                             |           | '00000110'B (Binding Acknowledgement message)                                                                                                            |         |
| Status                              |           | '00000000'B (Binding Update accepted)                                                                                                                    |         |
| K                                   |           | Set by the SS                                                                                                                                            |         |
| R                                   |           | '1'B                                                                                                                                                     |         |
| P                                   |           | '0'B                                                                                                                                                     |         |
| Sequence Number                     |           | Same value as that sent by the UE in the Binding Update                                                                                                  |         |
| Lifetime                            |           | '0000000010010110'B (10 min)                                                                                                                             |         |
| IPv4 Address Acknowledgement option |           | Optional: field present if IPv4 Home Address option was included by the UE in Binding Update at Step 2. Set to the IPv4 Home Address allocated to the UE |         |
| Binding Refresh Advice option       |           | '0000000010010110'B (10 min)                                                                                                                             |         |

| Condition | Explanation                                     |
|-----------|-------------------------------------------------|
| A1        | UE is in an IPv4 visited network (see RFC 5555) |
| A2        | UE is in an IPv6 home network (see RFC 5555)    |
| A3        | UE is in an IPv6 visited network (see RFC 5555) |

Contents of Binding Revocation Indication message:

| Information Element      | Condition | Value/remark                                                                 | Version |
|--------------------------|-----------|------------------------------------------------------------------------------|---------|
| IPv4 Source Address      | A1        | IPv4 Home Agent address                                                      |         |
| IPv4 Destination Address | A1        | Same value as UE IPv4 CoA in IP Source Address from Binding Update           |         |
| UDP header               | A1        |                                                                              |         |
| Source Port              | A1        | '0001000001011111'B                                                          |         |
| Destination port         | A1        | Same as Source port in Binding Update                                        |         |
| IPv6 Source Address      |           | IPv6 Home Agent address                                                      |         |
| IPv6 Destination Address | A2        | Same value as UE IPv6 CoA in IP Source Address from Binding Update           |         |
| IPv6 Destination Address | A1        | IPv6 Home Address                                                            |         |
| Routing Header           | A2        | Same value as UE IPv6 Home Address in Destination Header from Binding Update |         |
| B.R. Type                |           | '00000001'B (B.R.I)                                                          |         |
| Sequence Number          |           | Set by the SS                                                                |         |
| Revocation Trigger       |           | '00000001'B                                                                  |         |
| P                        |           | '0'B                                                                         |         |
| G                        |           | '0'B                                                                         |         |
| V                        |           | '0'B                                                                         |         |

| Condition | Explanation                                     |
|-----------|-------------------------------------------------|
| A1        | UE is in an IPv4 visited network (see RFC 5555) |
| A2        | UE is in an IPv6 visited network (see RFC 5555) |

Contents of Binding Revocation Acknowledgement message:

| Information Element      | Condition | Value/remark                                                                                       | Version |
|--------------------------|-----------|----------------------------------------------------------------------------------------------------|---------|
| IPv4 Source Address      | A1        | UE IPv4 CoA (IPv4 address acquired by UE during network attachment)                                |         |
| IPv4 Destination Address | A1        | IPv4 of Home Agent discovered during preamble                                                      |         |
| UDP header               | A1        |                                                                                                    |         |
| Source Port              | A1        | Set by UE                                                                                          |         |
| Destination port         | A1        | '0001000001011111'B                                                                                |         |
| IPv6 Source Address      | A1        | IPv6 Home Address configured by the UE from Home Network Prefix assigned to UE during preamble     |         |
| IPv6 Source Address      | A2        | UE IPv6 CoA (IPv6 address acquired by the UE during network attachment)                            |         |
| IPv6 Destination Address |           | IPv6 of Home Agent discovered during preamble                                                      |         |
| Destination Header       | A2        | IPv6 Home Address configured by the UE from Home Network Prefix assigned to the UE during preamble |         |
| B.R. Type                |           | '00000010'B (B.R.A)                                                                                |         |
| Sequence Number          |           | Same value as Sequence Number sent by the SS in Binding Revocation Indication message              |         |
| Status                   |           | '00000000'B (Success)                                                                              |         |
| P                        |           | '0'B                                                                                               |         |
| G                        |           | '0'B                                                                                               |         |
| V                        |           | '0'B                                                                                               |         |

| Condition | Explanation                                     |
|-----------|-------------------------------------------------|
| A1        | UE is in an IPv4 visited network (see RFC 5555) |
| A2        | UE is in an IPv6 visited network (see RFC 5555) |

## 9.1.5 Default Message Contents for Supplementary Services

### 9.1.5.1 Default contents for RRC messages

Contents of RRC CONNECTION REQUEST message: TM

IEs not listed below should be set and checked according to 9.1.1 or 9.1.2.

| Information Element | Condition | Value/remark                         | Version |
|---------------------|-----------|--------------------------------------|---------|
| Establishment cause |           | Originating High Priority Signalling |         |

### 9.1.5.2 Default contents for NAS messages

#### 9.1.5.2.1 Default contents for MM messages

Contents of MM INFORMATION:

| Information Element                                                                                        | Condition | Value/remark | Version |
|------------------------------------------------------------------------------------------------------------|-----------|--------------|---------|
| Full name for network                                                                                      |           | Not present  |         |
| Short name for network                                                                                     |           | Not present  |         |
| Local time zone                                                                                            |           | Not present  |         |
| Universal time and local time zone                                                                         |           | Not present  |         |
| LSA Identity                                                                                               |           | Not present  |         |
| Network Daylight Saving Time                                                                               |           | Not present  |         |
| NOTE: In the test case specific message contents at least one of these IE's shall be specified as present. |           |              |         |

## 9.1.5.2.2 Default contents for CC messages

Contents of CM SERVICE REQUEST message:

| Information Element           | Condition | Value/remark  | Version |
|-------------------------------|-----------|---------------|---------|
| CM service type               | SS        | '1000' B      |         |
|                               | CC        | '0001' B      |         |
| Ciphering key sequence Number |           | Correct value |         |
| Mobile station classmark      |           | Not checked   |         |
| Mobile identity               |           | TMSI          |         |
| Priority                      |           | Not present   |         |

| Condition | Explanation                                                                      |
|-----------|----------------------------------------------------------------------------------|
| SS        | For Supplementary Services Activation                                            |
| CC        | For Mobile originated Call Establishment or packet mode connection establishment |

Contents of FACILITY with Invoke component:

| Information Element                                                                                                       | Condition | Value/remark                                                                                                                             | Version |
|---------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Protocol discriminator                                                                                                    |           | 1011 B (non call related SS messages) or 0011 B (call control; call related SS messages)                                                 |         |
| Transaction identifier                                                                                                    |           | See the specific test case                                                                                                               |         |
| Message Type                                                                                                              |           | 0011 1010 B, if the message is sent by the SS<br>xx 11 1010 B, if the message is sent by the UE (NOTE)                                   |         |
| Facility IE                                                                                                               |           |                                                                                                                                          |         |
| - Length of Facility IE contents                                                                                          |           | 8                                                                                                                                        |         |
| - Component type tag                                                                                                      |           | 1010 0001 B (invoke)                                                                                                                     |         |
| - Component length                                                                                                        |           | 6                                                                                                                                        |         |
| - Invoke ID tag                                                                                                           |           | 0000 0010 B (invoke ID)                                                                                                                  |         |
| - Invoke ID length                                                                                                        |           | 1                                                                                                                                        |         |
| - Invoke ID                                                                                                               |           | An arbitrary integer value. The same value must be used in the subsequent corresponding Return Result, Return Error or Reject component. |         |
| - Linked ID tag                                                                                                           |           | Not present                                                                                                                              |         |
| - Linked ID length                                                                                                        |           | Not present                                                                                                                              |         |
| - Linked ID                                                                                                               |           | Not present                                                                                                                              |         |
| - Operation Code tag                                                                                                      |           | 0000 0010 B                                                                                                                              |         |
| - Operation Code length                                                                                                   |           | 1                                                                                                                                        |         |
| - Operation Code                                                                                                          |           | See the specific test case                                                                                                               |         |
| - Parameters                                                                                                              |           | Not present                                                                                                                              |         |
| SS Version Indicator                                                                                                      |           | Not checked, IE not present if message is sent by SS.                                                                                    |         |
| NOTE: Bits 7 and 8 are not checked, as these bits are reserved for the send sequence number in messages sent from the UE. |           |                                                                                                                                          |         |

Contents of FACILITY with Reject component:

| Information Element                                                                                                       | Condition | Value/remark                                                                                           | Version |
|---------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------|---------|
| Protocol discriminator                                                                                                    |           | 1011 B (non call related SS messages) or 0011 B (call control; call related SS messages)               |         |
| Transaction identifier                                                                                                    |           | See the specific test case                                                                             |         |
| Message Type                                                                                                              |           | 0011 1010 B, if the message is sent by the SS<br>xx 11 1010 B, if the message is sent by the UE (NOTE) |         |
| Facility IE                                                                                                               |           |                                                                                                        |         |
| - Length of Facility IE contents                                                                                          |           | 8                                                                                                      |         |
| - Component type tag                                                                                                      |           | 1010 0100 B (reject)                                                                                   |         |
| - Component length                                                                                                        |           | 6                                                                                                      |         |
| - Invoke ID tag                                                                                                           |           | 0000 0010 B (invoke ID)                                                                                |         |
| - Invoke ID length                                                                                                        |           | 1                                                                                                      |         |
| - Invoke ID                                                                                                               |           | The same value that has been used in the corresponding Invoke component.                               |         |
| - Problem Code tag                                                                                                        |           | See the specific test case                                                                             |         |
| - Problem Code length                                                                                                     |           | 1                                                                                                      |         |
| - Problem Code                                                                                                            |           | See the specific test case                                                                             |         |
| SS Version Indicator                                                                                                      |           | Not checked, IE not present if message is sent by SS.                                                  |         |
| NOTE: Bits 7 and 8 are not checked, as these bits are reserved for the send sequence number in messages sent from the UE. |           |                                                                                                        |         |

Contents of FACILITY with Return Error component:

| Information Element                                                                                                       | Condition | Value/remark                                                                                           | Version |
|---------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------|---------|
| Protocol discriminator                                                                                                    |           | 1011 B (non call related SS messages) or 0011 B (call control; call related SS messages)               |         |
| Transaction identifier                                                                                                    |           | See the specific test case                                                                             |         |
| Message Type                                                                                                              |           | 0011 1010 B, if the message is sent by the SS<br>xx 11 1010 B, if the message is sent by the UE (NOTE) |         |
| Facility IE                                                                                                               |           |                                                                                                        |         |
| - Length of Facility IE contents                                                                                          |           | 8                                                                                                      |         |
| - Component type tag                                                                                                      |           | 1010 0011 B (return error)                                                                             |         |
| - Component length                                                                                                        |           | 6                                                                                                      |         |
| - Invoke ID tag                                                                                                           |           | 0000 0010 B (invoke ID)                                                                                |         |
| - Invoke ID length                                                                                                        |           | 1                                                                                                      |         |
| - Invoke ID                                                                                                               |           | The same value that has been used in the corresponding Invoke component.                               |         |
| - Error Code tag                                                                                                          |           | 0000 0010 B                                                                                            |         |
| - Error Code length                                                                                                       |           | 1                                                                                                      |         |
| - Error Code                                                                                                              |           | See the specific test case                                                                             |         |
| - Parameters                                                                                                              |           | Not present                                                                                            |         |
| SS Version Indicator                                                                                                      |           | Not checked, IE not present if message is sent by SS.                                                  |         |
| NOTE: Bits 7 and 8 are not checked, as these bits are reserved for the send sequence number in messages sent from the UE. |           |                                                                                                        |         |

Contents of FACILITY with Return Result component:

| Information Element                                                                                                       | Condition | Value/remark                                                                                           | Version |
|---------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------|---------|
| Protocol discriminator                                                                                                    |           | 1011 B (non call related SS messages) or 0011 B (call control; call related SS messages)               |         |
| Transaction identifier                                                                                                    |           | See the specific test case                                                                             |         |
| Message Type                                                                                                              |           | 0011 1010 B, if the message is sent by the SS<br>xx 11 1010 B, if the message is sent by the UE (NOTE) |         |
| Facility IE                                                                                                               |           |                                                                                                        |         |
| - Length of Facility IE contents                                                                                          |           | 5                                                                                                      |         |
| - Component type tag                                                                                                      |           | 1010 0010 B (return result)                                                                            |         |
| - Component length                                                                                                        |           | 3                                                                                                      |         |
| - Invoke ID tag                                                                                                           |           | 0000 0010 B (invoke ID)                                                                                |         |
| - Invoke ID length                                                                                                        |           | 1                                                                                                      |         |
| - Invoke ID                                                                                                               |           | The same value that has been used in the corresponding Invoke component.                               |         |
| - Sequence tag                                                                                                            |           | Not present                                                                                            |         |
| - Sequence length                                                                                                         |           | Not present                                                                                            |         |
| - Operation Code tag                                                                                                      |           | Not present (omitted if the Return Result component does not include any parameters)                   |         |
| - Operation Code length                                                                                                   |           | Not present                                                                                            |         |
| - Operation Code                                                                                                          |           | Not present                                                                                            |         |
| - Parameters                                                                                                              |           | Not present                                                                                            |         |
| SS Version Indicator                                                                                                      |           | Not checked, IE not present if message is sent by SS.                                                  |         |
| NOTE: Bits 7 and 8 are not checked, as these bits are reserved for the send sequence number in messages sent from the UE. |           |                                                                                                        |         |

Contents of RELEASE COMPLETE message with *Return error* component:

| Information Element | Condition | Value/remark                                           | Version |
|---------------------|-----------|--------------------------------------------------------|---------|
| Cause               |           | Test case specific                                     |         |
| location            |           | Test case specific                                     |         |
| Cause value         |           | Test case specific                                     |         |
| Facility            |           |                                                        |         |
| Component type tag  |           | '10100011' B                                           |         |
| Component length    |           | calculated                                             |         |
| Invoke ID           |           | Same as the one sent by the UE in the FACILITY message |         |
| Error Code tag      |           | '00000010' B                                           |         |
| Error Code length   |           | calculated                                             |         |
| Error Code          |           | Test case specific                                     |         |
| Parameters          |           | Test case specific                                     |         |
| User-user           |           | Not present                                            |         |

Contents of RELEASE COMPLETE message with *Return result* component:

| Information Element | Condition | Value/remark                                           | Version |
|---------------------|-----------|--------------------------------------------------------|---------|
| Cause               |           | Normal event                                           |         |
| Facility            |           |                                                        |         |
| Component type tag  |           | '10100010' B                                           |         |
| Component length    |           | calculated                                             |         |
| Invoke ID           |           | Same as the one sent by the UE in the FACILITY message |         |
| Operation code      |           | Not present                                            |         |
| Parameters          |           | Not present                                            |         |

## 9.1.5.2.3 Default contents for GMM messages

Contents of GMM INFORMATION:

| Information Element                                                                                        | Condition | Value/remark | Version |
|------------------------------------------------------------------------------------------------------------|-----------|--------------|---------|
| Full name for network                                                                                      |           | Not present  |         |
| Short name for network                                                                                     |           | Not present  |         |
| Local time zone                                                                                            |           | Not present  |         |
| Universal time and local time zone                                                                         |           | Not present  |         |
| LSA Identity                                                                                               |           | Not present  |         |
| Network Daylight Saving Time                                                                               |           | Not present  |         |
| NOTE: In the test case specific message contents at least one of these IE's shall be specified as present. |           |              |         |



## 9.2 Default Message Contents for RF

This clause contains the default values of common messages for RF test. The parameters of the UL/DL reference measurement channel 12.2 kbps, the DL reference measurement channel for BTFD, UE test loop mode 1 without Dummy DCCH transmission and UE test loop mode 2 with Dummy DCCH transmission are set to default message contents.

### 9.2.1 Default Message Contents for RF (FDD)

Contents of Activate RB Test Mode message

| Information Element    | Value/remark   |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator         | 0 (Length 1/2) |
| Message Type           | 44h            |

Contents of Close UE Test Loop message (UE test loop mode 1 without Dummy DCCH transmission)

| Information Element          | Value/remark    |
|------------------------------|-----------------|
| Protocol discriminator       | F (Length 1/2)  |
| Skip indicator               | 0 (Length 1/2)  |
| Message Type                 | 40h             |
| UE test loop mode            | 00h             |
| UE test loop mode 1 LB setup | 03h 00h F4h 0Ah |

Contents of Close UE Test Loop message (UE test loop mode 2 without Dummy DCCH transmission)

| Information Element    | Value/remark   |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator         | 0 (Length 1/2) |
| Message Type           | 40h            |
| UE test loop mode      | 01h            |

Contents of Open UE Test Loop message

| Information Element    | Value/remark   |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator         | 0 (Length 1/2) |
| Message Type           | 42h            |

Contents of MBMS COMMON P-T-M RB INFORMATION message: UM

| Information Element                            | Value/remark                                                                                                                                                      | Version |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Message type                                   |                                                                                                                                                                   | Rel-6   |
| RB information list                            | One entry in the list                                                                                                                                             | Rel-6   |
| - RB identity                                  | 14                                                                                                                                                                | Rel-6   |
| - PDCP info                                    |                                                                                                                                                                   |         |
| - Support for lossless SRNS relocation         | Not Present                                                                                                                                                       |         |
| - PDCP PDU header                              | Absent                                                                                                                                                            |         |
| - Header compression information               | Not Present                                                                                                                                                       |         |
| - RLC info                                     |                                                                                                                                                                   |         |
| - DL UM RLC LI size                            | Selected with DL UM RLC data size                                                                                                                                 |         |
| - DL Duplication Avoidance and Reordering info | Not Present                                                                                                                                                       |         |
| TrCh information for each TrCh                 | One entry in the list                                                                                                                                             | Rel-6   |
| - Transport channel identity                   | 17                                                                                                                                                                | Rel-6   |
| - TFS                                          |                                                                                                                                                                   |         |
| - CHOICE <i>Transport channel type</i>         | Common transport channels                                                                                                                                         |         |
| - Dynamic Transport format information         |                                                                                                                                                                   |         |
| - RLC Size                                     | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2].                                                    |         |
| - Number of TBs List                           | (This IE is repeated for TFI number.)                                                                                                                             |         |
| - Transmission Time Interval                   | Not Present                                                                                                                                                       |         |
| - Number of Transport blocks                   | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2].                                                    |         |
| - CHOICE <i>Logical channel list</i>           | All                                                                                                                                                               |         |
| - Semi-static Transport Format information     |                                                                                                                                                                   |         |
| - Transmission time interval                   | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2].                                                    |         |
| - Type of channel coding                       | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2].                                                    |         |
| - Coding Rate                                  | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2].                                                    |         |
| - Rate matching attribute                      | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2].                                                    |         |
| - CRC size                                     | Reference to TS34.121 [2] Annex C.12 DL reference parameters or as specified within test case in TS34.121 [2].                                                    |         |
| TrCh information for each CCTrCh               | One entry in the list                                                                                                                                             | Rel-6   |
| - CCTrCH identity                              | 1                                                                                                                                                                 | Rel-6   |
| - TFCS                                         |                                                                                                                                                                   |         |
| - CHOICE <i>TFCI signalling</i>                | Normal                                                                                                                                                            |         |
| - TFCI Field 1 information                     |                                                                                                                                                                   |         |
| - CHOICE <i>TFCS representation</i>            | Complete reconfiguration                                                                                                                                          |         |
| - TFCS complete reconfiguration information    |                                                                                                                                                                   |         |
| - CHOICE CTFC Size                             | Number of bits used must be enough to cover all combinations of CTFC from TS34.121 [2] Annex C.12 parameter set or as specified within test case in TS34.121 [2]. |         |
| - CTFC information                             | This IE is repeated for number of CTFCs from TS34.121 [2] Annex C.12                                                                                              |         |

| Information Element         | Value/remark                                                                                           | Version |
|-----------------------------|--------------------------------------------------------------------------------------------------------|---------|
|                             | parameter set or as specified within test case in TS34.121 [2].                                        |         |
| - CTFC                      | Reference to TS34.121 [2] Annex C.12 parameter set or as specified within test case in TS34.121 [2].   |         |
| - Power offset information  | Not Present                                                                                            |         |
| PhyCh information           | One entry in list                                                                                      | Rel-6   |
| - PhyCh identity            | 13                                                                                                     | Rel-6   |
| - Secondary CCPCH info MBMS |                                                                                                        |         |
| - CHOICE <i>mode</i>        | FDD                                                                                                    |         |
| - Secondary scrambling code | Not Present                                                                                            |         |
| - STTD indicator            | FALSE                                                                                                  |         |
| - Spreading factor          | Reference to TS34.121 [2] Annex C.12 DL reference parameters.                                          |         |
| - Code number               | Reference to TS34.121 [2] Annex E.6.4 "Downlink physical channels code allocation for MBMS test cases" |         |
| - Timing Offset             | Not Present<br>Absence of this IE is equivalent to default value 0.                                    |         |

## Contents of PAGING TYPE 1 message: TM (CS)

| Information Element           | Value/remark                                                        |
|-------------------------------|---------------------------------------------------------------------|
| Message Type                  |                                                                     |
| Paging record list            |                                                                     |
| -Paging record                |                                                                     |
| - CHOICE Used paging identity | CN identity                                                         |
| - Paging cause                | Terminating Streaming Call                                          |
| - CN domain identity          | CS domain                                                           |
| - CHOICE UE identity          |                                                                     |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the USIM card |
| BCCH modification info        | Not Present                                                         |

## Contents of PAGING TYPE 1 message: TM (PS)

| Information Element           | Value/remark                                                        |
|-------------------------------|---------------------------------------------------------------------|
| Message Type                  |                                                                     |
| Paging record list            |                                                                     |
| -Paging record                |                                                                     |
| - CHOICE Used paging identity | CN identity                                                         |
| - Paging cause                | Terminating Interactive Call                                        |
| - CN domain identity          | PS domain                                                           |
| - CHOICE UE identity          |                                                                     |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the USIM card |
| BCCH modification info        | Not Present                                                         |

## Contents of PAGING TYPE 2 message: TM (PS)

| Information Element             | Value/remark                                                                                                                                                       |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                    |                                                                                                                                                                    |
| RRC transaction identifier      | Arbitrarily selects one integer between 0 to 3                                                                                                                     |
| Integrity check info            |                                                                                                                                                                    |
| - message authentication code   | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |
| - RRC message sequence number   | SS provides the value of this IE, from its internal counter.                                                                                                       |
| - Paging cause                  | Terminating Interactive Call                                                                                                                                       |
| - CN domain identity            | PS domain                                                                                                                                                          |
| - Paging record type identifier | TMSI(GSM-MAP)/P-TMSI                                                                                                                                               |

## Contents of RADIO BEARER SETUP message: AM or UM (Test Loop Mode1)

| Information Element                  | Condition                      | Value/remark                                                                                                                                                       | Version            | Index    |
|--------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Message Type                         | A1, A3, A4, A5, A6, A7, A8, A9 |                                                                                                                                                                    |                    | RBST-001 |
| RRC transaction identifier           |                                | Arbitrarily selects an integer between 0 and 3                                                                                                                     |                    | RBST-002 |
| Integrity check info                 |                                |                                                                                                                                                                    |                    | RBST-003 |
| - message authentication code        |                                | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                    | RBST-004 |
| - RRC message sequence number        |                                | SS provides the value of this IE, from its internal counter.                                                                                                       |                    | RBST-005 |
| Integrity protection mode info       |                                | Not Present                                                                                                                                                        |                    | RBST-006 |
| Ciphering mode info                  |                                | Not Present                                                                                                                                                        |                    | RBST-007 |
| Activation time                      |                                | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$                                                                                                          |                    | RBST-008 |
| New U-RNTI                           |                                | Not Present                                                                                                                                                        |                    | RBST-009 |
| New C-RNTI                           |                                | Not Present                                                                                                                                                        |                    | RBST-010 |
| New DSCH-RNTI                        |                                | Not Present                                                                                                                                                        | R99 and Rel-4 only | RBST-011 |
| New H-RNTI                           |                                | Not Present                                                                                                                                                        | Rel-5              | RBST-012 |
| New Primary E-RNTI                   |                                | Not Present                                                                                                                                                        | Rel-6              | RBST-013 |
| New Secondary E-RNTI                 |                                | Not Present                                                                                                                                                        | Rel-6              | RBST-014 |
| RRC State indicator                  |                                | CELL_DCH                                                                                                                                                           |                    | RBST-015 |
| UTRAN DRX cycle length coefficient   |                                | Not Present                                                                                                                                                        |                    | RBST-016 |
| CN information info                  |                                | Not Present                                                                                                                                                        |                    | RBST-017 |
| URA identity                         |                                | Not Present                                                                                                                                                        |                    | RBST-018 |
| CHOICE specification mode            |                                | Complete specification                                                                                                                                             | Rel-6              | RBST-019 |
| - Signalling RB information to setup |                                | Not Present                                                                                                                                                        |                    | RBST-020 |
| - RAB information for setup list     | A1, A3, A4, A5                 |                                                                                                                                                                    |                    | RBST-021 |
| - RAB information for setup          |                                |                                                                                                                                                                    |                    | RBST-022 |
| - RAB info                           |                                | 0000 0001B                                                                                                                                                         |                    | RBST-023 |
| - RAB identity                       |                                | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.                                                                   |                    | RBST-024 |
| - CN domain identity                 |                                | CS domain                                                                                                                                                          |                    | RBST-025 |
| - NAS Synchronization Indicator      |                                | Not Present                                                                                                                                                        |                    | RBST-026 |
| - Re-establishment timer             |                                | UseT314                                                                                                                                                            |                    | RBST-027 |
| - RB information to setup list       |                                |                                                                                                                                                                    |                    | RBST-028 |
| - RB information to setup            |                                |                                                                                                                                                                    |                    | RBST-029 |
|                                      |                                |                                                                                                                                                                    |                    | RBST-030 |
| - RAB information for setup list     | A6, A7, A8, A9                 |                                                                                                                                                                    |                    | RBST-031 |
| - RAB information for setup          |                                |                                                                                                                                                                    |                    | RBST-032 |
| - RAB info                           |                                | 0000 0101B                                                                                                                                                         |                    | RBST-033 |
| - RAB identity                       |                                | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.                                                                   |                    | RBST-034 |
| - CN domain identity                 |                                | PS domain                                                                                                                                                          |                    | RBST-035 |
| - NAS Synchronization Indicator      |                                | Not Present                                                                                                                                                        |                    | RBST-036 |
| - Re-establishment timer             |                                | UseT315                                                                                                                                                            |                    | RBST-037 |
| - RB information to setup list       |                                |                                                                                                                                                                    |                    | RBST-038 |
| - RB information to setup            |                                |                                                                                                                                                                    |                    | RBST-039 |
|                                      |                                |                                                                                                                                                                    |                    | RBST-040 |
| - RB identity                        | A1                             | 10                                                                                                                                                                 |                    | RBST-041 |
| - PDCP info                          |                                | Not Present                                                                                                                                                        |                    | RBST-042 |
| - CHOICE RLC info type               |                                | RLC info                                                                                                                                                           |                    | RBST-043 |
| - CHOICE Uplink RLC mode             |                                | TM RLC                                                                                                                                                             |                    | RBST-044 |
| - Transmission RLC discard           |                                | Not Present                                                                                                                                                        |                    | RBST-045 |
| - Segmentation indication            |                                | FALSE                                                                                                                                                              |                    | RBST-046 |
| - CHOICE Downlink RLC mode           |                                | TM RLC                                                                                                                                                             |                    | RBST-047 |
| - Segmentation indication            |                                | FALSE                                                                                                                                                              |                    | RBST-048 |
| - One sided RLC re-establishment     |                                | FALSE                                                                                                                                                              | Rel-5              | RBST-049 |
| - RB mapping info                    |                                |                                                                                                                                                                    |                    | RBST-050 |
| - Information for each multiplexing  |                                |                                                                                                                                                                    |                    | RBST-051 |

| Information Element                     | Condition  | Value/remark                           | Version | Index    |
|-----------------------------------------|------------|----------------------------------------|---------|----------|
| option                                  |            | Not Present                            |         | RBST-052 |
| - RLC logical channel mapping indicator |            | 1                                      |         | RBST-053 |
| channels                                |            | DCH                                    |         | RBST-054 |
| - Uplink transport channel type         |            | 1                                      |         | RBST-055 |
| - UL Transport channel identity         |            | Not Present                            |         | RBST-056 |
| - Logical channel identity              |            | Configured                             |         | RBST-057 |
| - CHOICE RLC size list                  |            | 7                                      |         | RBST-058 |
| - MAC logical channel priority          |            | 1                                      |         | RBST-059 |
| - Downlink RLC logical channel info     |            | 1                                      |         | RBST-060 |
| channels                                |            | DCH                                    |         | RBST-061 |
| - Downlink transport channel type       |            | 6                                      |         | RBST-062 |
| - DL DCH Transport channel identity     |            | Not Present                            |         | RBST-063 |
| - DL DSCH Transport channel identity    |            | Not Present                            |         | RBST-064 |
| - Logical channel identity              |            | Not Present                            |         | RBST-065 |
| - RB identity                           | A3, A4, A5 | 10                                     |         | RBST-066 |
| - PDCP info                             |            | Not Present                            |         | RBST-067 |
| - CHOICE RLC info type                  |            | RLC info                               |         | RBST-068 |
| - CHOICE Uplink RLC mode                |            | AM RLC                                 |         | RBST-069 |
| - Transmission RLC discard              |            | No Discard                             |         | RBST-070 |
| - CHOICE SDU discard mode               |            | 15                                     |         | RBST-071 |
| - MAX_DAT                               |            | Selected with Total RLC AM Buffer Size |         | RBST-072 |
| - Transmission window size              |            | 500                                    |         | RBST-073 |
| - Timer_RST                             |            | 4                                      |         | RBST-074 |
| - Max_RST                               |            | 400                                    |         | RBST-075 |
| - Polling info                          |            | 400                                    |         | RBST-076 |
| - Timer_poll_prohibit                   |            | Not Present                            |         | RBST-077 |
| - Timer_poll                            |            | 1                                      |         | RBST-078 |
| - Poll_PDU                              |            | TRUE                                   |         | RBST-079 |
| - Poll_SDU                              |            | TRUE                                   |         | RBST-080 |
| - Last transmission PDU poll            |            | 99                                     |         | RBST-081 |
| - Last retransmission PDU poll          |            | Not Present                            |         | RBST-082 |
| - Poll_Windows                          |            | AM RLC                                 |         | RBST-083 |
| - Timer_poll_periodic                   |            |                                        |         | RBST-084 |
| - CHOICE Downlink RLC mode              |            |                                        |         |          |
| - DL RLC PDU size                       | A3         | 1280 bits                              | Rel-5   | RBST-085 |
| - DL RLC PDU size                       | A4         | 2880 bits                              | Rel-5   | RBST-086 |
| - DL RLC PDU size                       | A5         | 3840 bits                              | Rel-5   | RBST-087 |
| - In-sequence delivery                  | A3, A4, A5 | TRUE                                   |         | RBST-088 |
| - Receiving window size                 |            | Selected with Total RLC AM Buffer Size |         | RBST-089 |
| - Downlink RLC status info              |            | 330                                    |         | RBST-090 |
| - Timer_status_prohibit                 |            | Not Present                            |         | RBST-091 |
| - Timer_EPC                             |            | TRUE                                   |         | RBST-092 |
| - Missing PDU indicator                 |            | Not Present                            |         | RBST-093 |
| - Timer_STATUS_periodic                 |            | FALSE                                  |         | RBST-094 |
| - One sided RLC re-establishment        |            |                                        | Rel-5   | RBST-095 |
| - RB mapping info                       |            |                                        |         | RBST-096 |
| - Information for each multiplexing     |            |                                        |         | RBST-097 |
| option                                  |            | Not Present                            |         | RBST-098 |
| - RLC logical channel mapping indicator |            | 1                                      |         | RBST-099 |
| channels                                |            | DCH                                    |         | RBST-100 |
| - Uplink transport channel type         |            | 1                                      |         | RBST-101 |
| - UL Transport channel identity         |            | Not Present                            |         | RBST-102 |
| - Logical channel identity              |            | Configured                             |         | RBST-103 |
| - CHOICE RLC size list                  |            | 7                                      |         | RBST-104 |
| - MAC logical channel priority          |            | 1                                      |         | RBST-105 |
| - Downlink RLC logical channel info     |            | 1                                      |         | RBST-106 |
| channels                                |            | DCH                                    |         | RBST-107 |
| - Downlink transport channel type       |            | 6                                      |         | RBST-108 |
| - DL DCH Transport channel              |            |                                        |         |          |

| Information Element                        | Condition      | Value/remark                           | Version | Index    |
|--------------------------------------------|----------------|----------------------------------------|---------|----------|
| identity                                   |                | Not Present                            |         | RBST-109 |
| - DL DSCH Transport channel identity       |                | Not Present                            |         | RBST-110 |
| - Logical channel identity                 |                | Not Present                            |         | RBST-111 |
| - RB identity                              | A6, A7, A8, A9 | 20                                     |         | RBST-112 |
| - PDCP info                                |                | Not present                            |         | RBST-113 |
| - CHOICE RLC info type                     |                | RLC info                               |         | RBST-114 |
| - CHOICE Uplink RLC mode                   |                | AM RLC                                 |         | RBST-115 |
| - Transmission RLC discard                 |                | No Discard                             |         | RBST-116 |
| - CHOICE SDU discard mode                  |                | 15                                     |         | RBST-117 |
| - MAX_DAT                                  |                | Selected with Total RLC AM Buffer Size |         | RBST-118 |
| - Transmission window size                 |                | 500                                    |         | RBST-119 |
| - Timer_RST                                |                | 4                                      |         | RBST-120 |
| - Max_RST                                  |                |                                        |         | RBST-121 |
| - Polling info                             |                |                                        |         | RBST-122 |
| - Timer_poll_prohibit                      |                | 400                                    |         | RBST-123 |
| - Timer_poll                               |                | 400                                    |         | RBST-124 |
| - Poll_PDU                                 |                | Not Present                            |         | RBST-125 |
| - Poll_SDU                                 |                | 1                                      |         | RBST-126 |
| - Last transmission PDU poll               |                | TRUE                                   |         | RBST-127 |
| - Last retransmission PDU poll             |                | TRUE                                   |         | RBST-128 |
| - Poll_Windows                             |                | 99                                     |         | RBST-129 |
| - Timer_poll_periodic                      |                | Not Present                            |         | RBST-130 |
| - CHOICE Downlink RLC mode                 |                | AM RLC                                 |         | RBST-131 |
| - DL RLC PDU size                          | A6             | 1280 bits                              | Rel-5   | RBST-132 |
| - DL RLC PDU size                          | A7             | 2880 bits                              | Rel-5   | RBST-133 |
| - DL RLC PDU size                          | A8             | 3840 bits                              | Rel-5   | RBST-134 |
| - DL RLC PDU size                          | A9             | 336 bits                               | Rel-5   | RBST-135 |
| - In-sequence delivery                     | A6, A7, A8, A9 | TRUE                                   |         | RBST-136 |
| - Receiving window size                    |                | Selected with Total RLC AM Buffer Size |         | RBST-137 |
| - Downlink RLC status info                 |                |                                        |         | RBST-138 |
| - Timer_status_prohibit                    |                | 330                                    |         | RBST-139 |
| - Timer_EPC                                |                | Not Present                            |         | RBST-140 |
| - Missing PDU indicator                    |                | TRUE                                   |         | RBST-141 |
| - Timer_STATUS_periodic                    |                | Not Present                            |         | RBST-142 |
| - One sided RLC re-establishment           |                | FALSE                                  |         | RBST-143 |
| - RB mapping info                          |                |                                        |         | RBST-144 |
| - Information for each multiplexing option |                | 2 RBMuxOptions                         |         | RBST-145 |
| - RLC logical channel mapping indicator    |                | Not Present                            |         | RBST-146 |
| - Number of uplink RLC logical channels    |                | 1                                      |         | RBST-147 |
| - Uplink transport channel type            |                | DCH                                    |         | RBST-148 |
| - UL Transport channel identity            |                | 1                                      |         | RBST-149 |
| - Logical channel identity                 |                | Not Present                            |         | RBST-150 |
| - CHOICE RLC size list                     |                | Configured                             |         | RBST-151 |
| - MAC logical channel priority             |                | 8                                      |         | RBST-152 |
| - Downlink RLC logical channel info        |                |                                        |         | RBST-153 |
| - Number of downlink RLC logical channels  |                | 1                                      |         | RBST-154 |
| - Downlink transport channel type          |                | DCH                                    |         | RBST-155 |
| - DL DCH Transport channel identity        |                | 6                                      |         | RBST-156 |
| - DL DSCH Transport channel identity       |                | Not Present                            |         | RBST-157 |
| - Logical channel identity                 |                | Not Present                            |         | RBST-158 |
| - RLC logical channel mapping indicator    |                | Not Present                            |         | RBST-159 |
| - Number of uplink RLC logical channels    |                | 1                                      |         | RBST-160 |
| - Uplink transport channel type            |                | RACH                                   |         | RBST-161 |
| - UL Transport channel identity            |                | Not Present                            |         | RBST-162 |
| - Logical channel identity                 |                | 7                                      |         | RBST-163 |
| - CHOICE RLC size list                     |                | Explicit list                          |         | RBST-164 |

| Information Element                                         | Condition                      | Value/remark                          | Version | Index    |
|-------------------------------------------------------------|--------------------------------|---------------------------------------|---------|----------|
| - RLC size index                                            |                                | Reference to clause 6 Parameter Set 8 |         | RBST-164 |
| - MAC logical channel priority                              |                                |                                       |         | RBST-165 |
| - Downlink RLC logical channel info                         |                                |                                       |         | RBST-166 |
| - Number of downlink RLC logical channels                   |                                | 1                                     |         | RBST-167 |
| - Downlink transport channel type                           |                                | FACH                                  |         | RBST-168 |
| - DL DCH Transport channel identity                         |                                | Not Present                           |         | RBST-169 |
| - DL DSCH Transport channel identity                        |                                | Not Present                           |         | RBST-170 |
| - Logical channel identity                                  |                                | 7                                     |         | RBST-171 |
| RB information to reconfigure list                          | A1, A3, A4, A5, A6, A7, A8, A9 | Not Present                           | Rel-6   | RBST-172 |
| RB information to be affected list                          |                                | Not Present                           | Rel-5   | RBST-173 |
| Downlink counter synchronization info                       |                                | Not Present                           |         | RBST-174 |
| PDCP ROHC target mode                                       |                                | Not Present                           |         | RBST-175 |
| UL Transport channel information for all transport channels |                                |                                       |         | RBST-176 |
| - PRACH TFCS                                                |                                | Not Present                           |         | RBST-177 |
| - CHOICE mode                                               |                                | FDD                                   |         | RBST-178 |
| - TFC subset                                                |                                | Not Present                           |         | RBST-179 |
| - UL DCH TFCS                                               |                                |                                       |         | RBST-180 |
| - CHOICE TFCl signalling                                    |                                | Normal                                |         | RBST-181 |
| - TFCl Field 1 information                                  |                                |                                       |         | RBST-182 |
| - CHOICE TFCS representation                                |                                | Complete reconfiguration              |         | RBST-183 |
| - TFCS complete reconfigure information                     |                                |                                       |         | RBST-184 |
| - CHOICE CTFC Size                                          |                                | 2 bit CTFC                            |         | RBST-185 |
| - CTFC information                                          |                                | 4 TFCS                                |         | RBST-186 |
| - 2bit CTFC                                                 |                                | 0                                     |         | RBST-187 |
| -Power offset Information                                   |                                |                                       |         | RBST-188 |
| - CHOICE Gain Factors                                       |                                | Computed Gain Factors                 |         | RBST-189 |
| - Reference TFC ID                                          |                                | 0                                     |         | RBST-190 |
| - CHOICE mode                                               |                                | FDD                                   |         | RBST-191 |
| - Power offset $P_{p-m}$                                    |                                | Not Present                           |         | RBST-192 |
| - 2bit CTFC                                                 |                                | 2                                     |         | RBST-193 |
| - Power offset Information                                  |                                |                                       |         | RBST-194 |
| - CHOICE Gain Factors                                       |                                | Computed Gain Factors                 |         | RBST-195 |
| - Reference TFC ID                                          |                                | 0                                     |         | RBST-196 |
| - CHOICE mode                                               |                                | FDD                                   |         | RBST-197 |
| - Power offset $P_{p-m}$                                    |                                | Not Present                           |         | RBST-198 |
| - 2bit CTFC                                                 |                                | 1                                     |         | RBST-199 |
| - Power offset Information                                  |                                |                                       |         | RBST-200 |
| - CHOICE Gain Factors                                       |                                | Computed Gain Factors                 |         | RBST-201 |
| - Reference TFC ID                                          |                                | 0                                     |         | RBST-202 |
| - CHOICE mode                                               |                                | FDD                                   |         | RBST-203 |
| - Power offset $P_{p-m}$                                    |                                | Not Present                           |         | RBST-204 |
| - 2bit CTFC                                                 |                                | 3                                     |         | RBST-205 |
| - Power offset Information                                  |                                |                                       |         | RBST-206 |
| - CHOICE Gain Factors                                       |                                | Signalled Gain Factors                |         | RBST-207 |
| - CHOICE mode                                               |                                | FDD                                   |         | RBST-208 |
| - Gain factor $\beta_c$                                     |                                | 8                                     |         | RBST-209 |
| - Gain factor $\beta_d$                                     |                                | 15                                    |         | RBST-210 |
| - Reference TFC ID                                          |                                | 0                                     |         | RBST-211 |
| - CHOICE mode                                               |                                | FDD                                   |         | RBST-212 |
| - Power offset $P_{p-m}$                                    |                                | Not Present                           |         | RBST-213 |
| Deleted UL TrCH information list                            |                                | Not Present                           |         | RBST-214 |
| Added or Reconfigured TrCH information list                 | A1                             | 1                                     |         | RBST-215 |
| - Added or Reconfigured UL TrCH information                 |                                |                                       |         | RBST-216 |
| - Uplink transport channel type                             |                                | DCH                                   |         | RBST-217 |
| - UL Transport channel identity                             |                                | 1                                     |         | RBST-218 |
| - TFS                                                       |                                |                                       |         | RBST-219 |
| - CHOICE Transport channel type                             |                                | Dedicated transport channels          |         | RBST-220 |

| Information Element                                               | Condition                  | Value/remark                 | Version | Index    |
|-------------------------------------------------------------------|----------------------------|------------------------------|---------|----------|
| - Dynamic Transport Format Information                            |                            |                              |         | RBST-221 |
| - RLC size                                                        |                            | 244 bits                     |         | RBST-222 |
| - Number of TBs and TTI List                                      |                            | 2                            |         | RBST-223 |
| - Transmission Time Interval                                      |                            | Not Present                  |         | RBST-224 |
| - Number of Transport blocks                                      |                            | 0                            |         | RBST-225 |
| - Transmission Time Interval                                      |                            | Not Present                  |         | RBST-226 |
| - Number of Transport blocks                                      |                            | 1                            |         | RBST-227 |
| - CHOICE Logical channel List                                     |                            | ALL                          |         | RBST-228 |
| - Semi-static Transport Format Information                        |                            |                              |         | RBST-229 |
| - Transmission time interval                                      |                            | 20                           |         | RBST-230 |
| - Type of channel coding                                          |                            | Convolutional                |         | RBST-231 |
| - Coding Rate                                                     |                            | 1/3                          |         | RBST-232 |
| - Rate matching attribute                                         |                            | 256                          |         | RBST-233 |
| - CRC size                                                        |                            | 16                           |         | RBST-234 |
| Added or Reconfigured TrCH information list                       | A3, A4, A5, A6, A7, A8, A9 | 1                            |         | RBST-235 |
| - Added or Reconfigured UL TrCH information                       |                            |                              |         | RBST-236 |
| - Uplink transport channel type                                   |                            | DCH                          |         | RBST-237 |
| - UL Transport channel identity                                   |                            | 1                            |         | RBST-238 |
| - TFS                                                             |                            |                              |         | RBST-239 |
| - CHOICE Transport channel type                                   |                            | Dedicated transport channels |         | RBST-240 |
| - Dynamic Transport Format Information                            |                            |                              |         | RBST-241 |
| - RLC size                                                        |                            | 240 bits                     |         | RBST-242 |
| - Number of TBs and TTI List                                      |                            | 2                            |         | RBST-243 |
| - Transmission Time Interval                                      |                            | Not Present                  |         | RBST-244 |
| - Number of Transport blocks                                      |                            | 0                            |         | RBST-245 |
| - Transmission Time Interval                                      |                            | Not Present                  |         | RBST-246 |
| - Number of Transport blocks                                      |                            | 1                            |         | RBST-247 |
| - CHOICE Logical channel List                                     |                            | ALL                          |         | RBST-248 |
| - Semi-static Transport Format Information                        |                            |                              |         | RBST-249 |
| - Transmission time interval                                      |                            | 20                           |         | RBST-250 |
| - Type of channel coding                                          |                            | Convolutional                |         | RBST-251 |
| - Coding Rate                                                     |                            | 1/3                          |         | RBST-252 |
| - Rate matching attribute                                         |                            | 256                          |         | RBST-253 |
| - CRC size                                                        |                            | 16                           |         | RBST-254 |
| CHOICE mode                                                       | A1, A3, A4, A5, A6, A7, A8 | Not Present                  |         | RBST-255 |
| DL Transport channel information common for all transport channel |                            |                              |         | RBST-256 |
| - SCCPCH TFCS                                                     |                            | Not Present                  |         | RBST-257 |
| - CHOICE mode                                                     |                            | FDD                          |         | RBST-258 |
| - CHOICE DL parameters                                            |                            | Same as UL                   |         | RBST-259 |
| Deleted DL TrCH information list                                  |                            | Not Present                  |         | RBST-260 |
| CHOICE mode                                                       | A9                         | Not Present                  |         | RBST-261 |
| DL Transport channel information common for all transport channel |                            |                              |         | RBST-262 |
| - SCCPCH TFCS                                                     |                            | Not Present                  |         | RBST-263 |
| - CHOICE mode                                                     |                            | FDD                          |         | RBST-264 |
| - CHOICE DL parameters                                            |                            | DL DCH TFCS                  |         | RBST-265 |
| - DL DCH TFCS                                                     |                            |                              |         | RBST-266 |
| - CHOICE TFCS signalling                                          |                            | Normal                       |         | RBST-267 |
| - TFCS Field 1 information                                        |                            |                              |         | RBST-268 |
| - CHOICE TFCS representation                                      |                            | Complete reconfiguration     |         | RBST-269 |
| - TFCS complete reconfigure information                           |                            |                              |         | RBST-270 |
| - CHOICE CTFC Size                                                |                            | 4 bit CTFC                   |         | RBST-271 |
| - CTFC information                                                |                            | 6 TFCS                       |         | RBST-272 |
| - 4bit CTFC                                                       |                            | 0                            |         | RBST-273 |
| - Power offset Information                                        |                            |                              |         | RBST-274 |
| - CHOICE Gain Factors                                             |                            | Computed Gain Factors        |         | RBST-275 |



| Information Element                         | Condition | Value/remark                 | Version | Index    |
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| - Reference TFC ID                          |           | 0                            |         | RBST-276 |
| - CHOICE mode                               |           | FDD                          |         | RBST-277 |
| - Power offset Pp-m                         |           | Not Present                  |         | RBST-278 |
| - 4bit CTFC                                 |           | 3                            |         | RBST-279 |
| - Power offset Information                  |           |                              |         | RBST-280 |
| - CHOICE Gain Factors                       |           | Computed Gain Factors        |         | RBST-281 |
| - Reference TFC ID                          |           | 0                            |         | RBST-282 |
| - CHOICE mode                               |           | FDD                          |         | RBST-283 |
| - Power offset Pp-m                         |           | Not Present                  |         | RBST-284 |
| - 4bit CTFC                                 |           | 1                            |         | RBST-285 |
| - Power offset Information                  |           |                              |         | RBST-286 |
| - CHOICE Gain Factors                       |           | Computed Gain Factors        |         | RBST-287 |
| - Reference TFC ID                          |           | 0                            |         | RBST-288 |
| - CHOICE mode                               |           | FDD                          |         | RBST-289 |
| - Power offset Pp-m                         |           | Not Present                  |         | RBST-290 |
| - 4bit CTFC                                 |           | 4                            |         | RBST-291 |
| - Power offset Information                  |           |                              |         | RBST-292 |
| - CHOICE Gain Factors                       |           | Computed Gain Factors        |         | RBST-293 |
| - Reference TFC ID                          |           | 0                            |         | RBST-294 |
| - CHOICE mode                               |           | FDD                          |         | RBST-295 |
| - Power offset Pp-m                         |           | Not Present                  |         | RBST-296 |
| - 4bit CTFC                                 |           | 2                            |         | RBST-297 |
| - Power offset Information                  |           |                              |         | RBST-298 |
| - CHOICE Gain Factors                       |           | Computed Gain Factors        |         | RBST-299 |
| - Reference TFC ID                          |           | 0                            |         | RBST-300 |
| - CHOICE mode                               |           | FDD                          |         | RBST-301 |
| - Power offset Pp-m                         |           | Not Present                  |         | RBST-302 |
| - 4bit CTFC                                 |           | 5                            |         | RBST-303 |
| - Power offset Information                  |           |                              |         | RBST-304 |
| - CHOICE Gain Factors                       |           | Signalled Gain Factors       |         | RBST-305 |
| - CHOICE mode                               |           | FDD                          |         | RBST-306 |
| - Gain factor $\beta_c$                     |           | 8                            |         | RBST-307 |
| - Gain factor $\beta_d$                     |           | 15                           |         | RBST-308 |
| - Reference TFC ID                          |           | 0                            |         | RBST-309 |
| - CHOICE mode                               |           | FDD                          |         | RBST-310 |
| - Power offset Pp-m                         |           | Not Present                  |         | RBST-311 |
| Deleted DL TrCH information list            |           | Not Present                  |         | RBST-312 |
| Added or Reconfigured TrCH information list | A1        | 1                            |         | RBST-313 |
| - Added or Reconfigured DL TrCH information |           |                              |         | RBST-314 |
| - Downlink transport channel type           |           | DCH                          |         | RBST-315 |
| - DL Transport channel identity             |           | 6                            |         | RBST-316 |
| - CHOICE DL parameters                      |           | Same as UL                   |         | RBST-317 |
| - Uplink transport channel type             |           | DCH                          |         | RBST-318 |
| - UL TrCH identity                          |           | 1                            |         | RBST-319 |
| - DCH quality target                        |           |                              |         | RBST-320 |
| - BLER Quality value                        |           | -20 (-2.0)                   |         | RBST-321 |
| Added or Reconfigured TrCH information list | A3, A6    | 1                            |         | RBST-322 |
| - Added or Reconfigured DL TrCH information |           |                              |         | RBST-323 |
| - Downlink transport channel type           |           | DCH                          |         | RBST-324 |
| - DL Transport channel identity             |           | 6                            |         | RBST-325 |
| - CHOICE DL parameters                      |           | Explicit                     |         | RBST-326 |
| - TFS                                       |           |                              |         | RBST-327 |
| - CHOICE Transport channel type             |           | Dedicated transport channels |         | RBST-328 |
| - Dynamic transport format                  |           |                              |         | RBST-329 |
| information                                 |           |                              |         |          |
| - RLC Size                                  |           | 1280 bits                    |         | RBST-330 |
| - Number of TBs and TTI List                |           | 2                            |         | RBST-331 |
| - Transmission Time Interval                |           | Not Present                  |         | RBST-332 |
| - Number of Transport blocks                |           | 0                            |         | RBST-333 |
| - Transmission Time Interval                |           | Not Present                  |         | RBST-334 |
| - Number of Transport blocks                |           | 1                            |         | RBST-335 |
| - CHOICE Logical channel list               |           | ALL                          |         | RBST-336 |
| - Semi-static Transport Format              |           |                              |         | RBST-337 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Condition | Value/remark                                                                                                                                                                         | Version | Index                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | 20<br>Turbo<br>256<br>16<br>-20 (-2.0)                                                                                                                                               |         | RBST-338<br>RBST-339<br>RBST-340<br>RBST-341<br>RBST-342<br>RBST-343                                                                                                                                                                                                                 |
| Added or Reconfigured TrCH information list <ul style="list-style-type: none"> <li>- Added or Reconfigured DL TrCH information</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format</li> </ul> information <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format</li> </ul> information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul> | A4, A7    | 1<br><br>DCH<br>6<br>Explicit<br><br>Dedicated transport channels<br><br>2880 bits<br>2<br>Not Present<br>0<br>Not Present<br>1<br>ALL<br><br>20<br>Turbo<br>256<br>16<br>-20 (-2.0) |         | RBST-344<br><br>RBST-345<br><br>RBST-346<br>RBST-347<br>RBST-348<br>RBST-349<br>RBST-350<br>RBST-351<br><br>RBST-352<br>RBST-353<br>RBST-354<br>RBST-355<br>RBST-356<br>RBST-357<br>RBST-358<br>RBST-359<br><br>RBST-360<br>RBST-361<br>RBST-362<br>RBST-363<br>RBST-364<br>RBST-365 |
| Added or Reconfigured TrCH information list <ul style="list-style-type: none"> <li>- Added or Reconfigured DL TrCH information</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format</li> </ul> information <ul style="list-style-type: none"> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format</li> </ul> information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul> | A5, A8    | 1<br><br>DCH<br>6<br>Explicit<br><br>Dedicated transport channels<br><br>3840 bits<br>2<br>Not Present<br>0<br>Not Present<br>1<br>ALL<br><br>10<br>Turbo<br>256<br>16<br>-20 (-2.0) |         | RBST-366<br><br>RBST-367<br><br>RBST-368<br>RBST-369<br>RBST-370<br>RBST-371<br>RBST-372<br>RBST-373<br><br>RBST-374<br>RBST-375<br>RBST-376<br>RBST-377<br>RBST-378<br>RBST-379<br>RBST-380<br>RBST-381<br><br>RBST-382<br>RBST-383<br>RBST-384<br>RBST-385<br>RBST-386<br>RBST-387 |
| Added or Reconfigured TrCH information list <ul style="list-style-type: none"> <li>- Added or Reconfigured DL TrCH information</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- TFS</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A9        | 1<br><br>DCH<br>6<br>Explicit                                                                                                                                                        |         | RBST-388<br><br>RBST-389<br><br>RBST-390<br>RBST-391<br>RBST-392<br>RBST-393                                                                                                                                                                                                         |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Condition                      | Value/remark                                                                                         | Version                                  | Index                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------|
| <ul style="list-style-type: none"> <li>- CHOICE Transport channel type</li> <li>- Dynamic transport format information</li> <li>- RLC Size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel list</li> <li>- Semi-static Transport Format information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Rate matching attribute</li> <li>- CRC size</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul> |                                | Dedicated transport channels                                                                         |                                          | RBST-394<br>RBST-395 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | 336 bits                                                                                             |                                          | RBST-396             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | 3                                                                                                    |                                          | RBST-397             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | Not Present                                                                                          |                                          | RBST-398             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | 0                                                                                                    |                                          | RBST-399             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | Not Present                                                                                          |                                          | RBST-400             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | 1                                                                                                    |                                          | RBST-401             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | Not Present                                                                                          |                                          | RBST-402             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | 4                                                                                                    |                                          | RBST-403             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | ALL                                                                                                  |                                          | RBST-404             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |                                                                                                      |                                          | RBST-405             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | 20                                                                                                   |                                          | RBST-406             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | Turbo                                                                                                |                                          | RBST-407             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | 143                                                                                                  |                                          | RBST-408             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | 16                                                                                                   |                                          | RBST-409             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | -20 (-2.0)                                                                                           |                                          | RBST-410<br>RBST-411 |
| Frequency info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A1, A3, A4, A5, A6, A7, A8, A9 | Not Present                                                                                          |                                          | RBST-412             |
| Multi-frequency Info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                | Not Present                                                                                          | Rel-7                                    | RBST-413             |
| DTX-DRX timing information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                | Not Present                                                                                          | Rel-7                                    | RBST-414             |
| DRX Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | Not Present                                                                                          | Rel-7                                    | RBST-415             |
| HS-SCCH less Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Not Present                                                                                          | Rel-7                                    | RBST-416             |
| MIMO parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | Not Present                                                                                          | Rel-7                                    | RBST-417             |
| Maximum allowed UL TX power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                | 33dBm                                                                                                |                                          | RBST-418             |
| CHOICE channel requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                | Uplink DPCH info                                                                                     | Rel-5 and earlier<br>Rel-6               | RBST-419             |
| Uplink DPCH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |                                                                                                      |                                          | RBST-420             |
| - Uplink DPCH power control info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |                                                                                                      |                                          | RBST-421             |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                | FDD                                                                                                  |                                          | RBST-422             |
| - DPCCH power offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                | -40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active |                                          | RBST-423             |
| - PC Preamble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                | 1 frame                                                                                              |                                          | RBST-424             |
| - SRB delay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                | 7 frames                                                                                             |                                          | RBST-425             |
| - Power Control Algorithm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                | Algorithm1                                                                                           |                                          | RBST-426             |
| - TPC step size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                | 0 (1dB)                                                                                              |                                          | RBST-427             |
| - $\Delta_{ACK}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                | Not Present                                                                                          | Rel-5                                    | RBST-428             |
| - $\Delta_{NACK}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                | Not Present                                                                                          | Rel-5                                    | RBST-429             |
| - Ack-Nack repetition factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Not Present                                                                                          | Rel-5                                    | RBST-430             |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                | FDD                                                                                                  |                                          | RBST-431             |
| - Scrambling code type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                | Long                                                                                                 |                                          | RBST-432             |
| - Scrambling code number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | 0 (0 to 16777215)                                                                                    |                                          | RBST-433             |
| - Number of DPDCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                | 1                                                                                                    |                                          | RBST-434             |
| - spreading factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A1, A3, A4, A5, A6, A7, A8, A9 | 64                                                                                                   |                                          | RBST-435             |
| - TFCI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A1, A3, A4, A5, A6, A7, A8, A9 | TRUE                                                                                                 |                                          | RBST-436             |
| - Number of FBI bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                | Not Present(0)                                                                                       |                                          | RBST-437             |
| - Puncturing Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                | 1                                                                                                    |                                          | RBST-438             |
| CHOICE Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                | FDD                                                                                                  |                                          | RBST-439             |
| - Downlink PDSCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Not Present                                                                                          | R99 and Rel-4 only<br>R99 and Rel-4 only | RBST-440             |
| E-DCH Info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                | Not Present                                                                                          | Rel-6                                    | RBST-441             |
| Downlink HS-PDSCH Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                | Not Present                                                                                          | Rel-5                                    | RBST-442             |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |                                                                                                      |                                          | RBST-443             |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Condition                      | Value/remark                                                                  | Version                                           | Index    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------|----------|
| - Downlink DPCH info common for all RL<br>- Timing indicator<br>- CFN-targetSFN frame offset<br>- Downlink DPCH power control information<br>- CHOICE mode<br>- DPC mode<br>- CHOICE mode<br>- Power offset $P_{\text{Pilot-DPCH}}$<br>- DL rate matching restriction information                                                                                                                                                                                                                                                                                                                                                                            |                                | Maintain                                                                      |                                                   | RBST-444 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Not Present                                                                   |                                                   | RBST-445 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |                                                                               |                                                   | RBST-446 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |                                                                               |                                                   | RBST-447 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | FDD                                                                           |                                                   | RBST-448 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | 0 (single)                                                                    |                                                   | RBST-449 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | FDD                                                                           |                                                   | RBST-450 |
| - Spreading factor<br>- Fixed or Flexible Position<br>- TFCI existence<br>- CHOICE SF<br>- Number of bits for Pilot bits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1                             | 0                                                                             |                                                   | RBST-451 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Not Present                                                                   |                                                   | RBST-452 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | 128                                                                           |                                                   | RBST-453 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Fixed                                                                         |                                                   | RBST-454 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | TRUE                                                                          |                                                   | RBST-455 |
| - Spreading factor<br>- Fixed or Flexible Position<br>- TFCI existence<br>- CHOICE SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A3, A6, A9                     | 128                                                                           |                                                   | RBST-456 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | 8                                                                             |                                                   | RBST-457 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | 32                                                                            |                                                   | RBST-458 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Fixed                                                                         |                                                   | RBST-459 |
| - Spreading factor<br>- Fixed or Flexible Position<br>- TFCI existence<br>- CHOICE SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A4, A7                         | TRUE                                                                          |                                                   | RBST-460 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | 32                                                                            |                                                   | RBST-461 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | 16                                                                            |                                                   | RBST-462 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Fixed                                                                         |                                                   | RBST-463 |
| - Spreading factor<br>- Fixed or Flexible Position<br>- TFCI existence<br>- CHOICE SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A5, A8                         | TRUE                                                                          |                                                   | RBST-464 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | 16                                                                            |                                                   | RBST-465 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | 8                                                                             |                                                   | RBST-466 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Fixed                                                                         |                                                   | RBST-467 |
| - CHOICE mode<br><br>- DPCH compressed mode info<br>- TX Diversity mode<br>- SSDT information<br><br>- Default DPCH Offset Value<br>- MAC-hs reset indicator<br>Downlink information per radio link list<br>- Downlink information for each radio link<br>- CHOICE mode<br>- Primary CPICH info<br>- Primary scrambling code<br><br>- PDSCH with SHO DCH info<br><br>- PDSCH code mapping<br><br>- Serving HS-DSCH radio link indicator<br>- Downlink DPCH info for each RL<br>- CHOICE mode<br>- Primary CPICH usage for channel estimation<br>- DPCH frame offset<br><br>- Secondary CPICH info<br>- DL channelisation code<br>- Secondary scrambling code | A1, A3, A4, A5, A6, A7, A8, A9 | FDD                                                                           | R99 and Rel-4 only                                | RBST-470 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Not Present                                                                   |                                                   | RBST-471 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | None                                                                          |                                                   | RBST-472 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Not Present                                                                   |                                                   | RBST-473 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Not Present                                                                   |                                                   | RBST-474 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Not Present                                                                   |                                                   | RBST-475 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |                                                                               |                                                   | RBST-476 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |                                                                               |                                                   | RBST-477 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | FDD                                                                           |                                                   | RBST-478 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Reference to clause 6.1 "Default settings (FDD)"                              |                                                   | RBST-479 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Not Present                                                                   | R99 and Rel-4 only<br>R99 and Rel-4 only<br>Rel-5 | RBST-480 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |                                                                               |                                                   | RBST-481 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Not Present                                                                   |                                                   | RBST-482 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | FALSE                                                                         |                                                   | RBST-483 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |                                                                               |                                                   | RBST-484 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | FDD                                                                           |                                                   | RBST-485 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Primary CPICH may be used                                                     |                                                   | RBST-486 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |                                                   | RBST-487 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Not Present                                                                   |                                                   | RBST-488 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | Not Present                                                                   |                                                   | RBST-489 |
| - Spreading factor<br>- Code number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1                             | 128                                                                           |                                                   | RBST-490 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | 96                                                                            |                                                   | RBST-491 |
| - Spreading factor<br>- Code number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A3, A6, A9                     | 32                                                                            |                                                   | RBST-492 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                | 24                                                                            |                                                   | RBST-493 |
| - Spreading factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A4, A7                         | 16                                                                            |                                                   | RBST-494 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                |                                                                               |                                                   | RBST-495 |

| Information Element                     | Condition                      | Value/remark | Version            | Index    |
|-----------------------------------------|--------------------------------|--------------|--------------------|----------|
| - Code number                           |                                | 12           |                    | RBST-496 |
| - Spreading factor                      | A5, A8                         | 8            |                    | RBST-497 |
| - Code number                           |                                | 6            |                    | RBST-498 |
| - Scrambling code change                | A1, A3, A4, A5, A6, A7, A8, A9 | No change    |                    | RBST-499 |
| - TPC combination index                 |                                | 0            | R99 and Rel-4 only | RBST-500 |
| - SSdT Cell Identity                    |                                | Not Present  |                    | RBST-501 |
| - Closed loop timing adjustment mode    |                                | Not Present  |                    | RBST-502 |
| - SCCPCH information for FACH           |                                | Not Present  | R99 and Rel-4 only | RBST-503 |
| MBMS PL Service Restriction Information |                                | Not Present  | Rel-6              | RBST-504 |

| Condition | Explanation                                                                               | Version |
|-----------|-------------------------------------------------------------------------------------------|---------|
| A1        | This IE is needed for "UE supports CS RAB for Test Loop Mode1 RMC 12.2/12.2 (TM)"         |         |
| A2        | Not used                                                                                  |         |
| A3        | This IE is needed for "UE supports CS RAB for Test Loop Mode1 AMC 12.2/64 (AM)"           |         |
| A4        | This IE is needed for "UE supports CS RAB for Test Loop Mode1 AMC 12.2/144 (AM)"          |         |
| A5        | This IE is needed for "UE supports CS RAB for Test Loop Mode1 AMC 12.2/384 (AM)"          |         |
| A6        | This IE is needed for "UE supports PS RAB for Test Loop Mode1 AMC 12.2/64 (AM)"           |         |
| A7        | This IE is needed for "UE supports PS RAB for Test Loop Mode1 AMC 12.2/144 (AM)"          |         |
| A8        | This IE is needed for "UE supports PS RAB for Test Loop Mode1 AMC 12.2/384 (AM)"          |         |
| A9        | This IE is needed for "UE supports PS RAB for Test Loop Mode1 AMC 12.2/64(Channel2) (AM)" |         |

Contents of RADIO BEARER SETUP message: AM or UM (UE supports PS RAB only)

| Information Element                  | Value/remark                                                                                                                                                       | Version            | Index    |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Message Type                         |                                                                                                                                                                    |                    | RBSP-001 |
| RRC transaction identifier           | Arbitrarily selects an integer between 0 and 3                                                                                                                     |                    | RBSP-002 |
| Integrity check info                 |                                                                                                                                                                    |                    | RBSP-003 |
| - message authentication code        | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                    | RBSP-004 |
| - RRC message sequence number        | SS provides the value of this IE, from its internal counter.                                                                                                       |                    | RBSP-005 |
| Integrity protection mode info       | Not Present                                                                                                                                                        |                    | RBSP-006 |
| Ciphering mode info                  | Not Present                                                                                                                                                        |                    | RBSP-007 |
| Activation time                      | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$                                                                                                          |                    | RBSP-008 |
| New U-RNTI                           | Not Present                                                                                                                                                        |                    | RBSP-009 |
| New C-RNTI                           | Not Present                                                                                                                                                        |                    | RBSP-010 |
| New DSCH-RNTI                        | Not Present                                                                                                                                                        | R99 and Rel-4 only | RBSP-011 |
| New H-RNTI                           | Not Present                                                                                                                                                        | Rel-5              | RBSP-012 |
| New Primary E-RNTI                   | Not Present                                                                                                                                                        | Rel-6              | RBSP-013 |
| New Secondary E-RNTI                 | Not Present                                                                                                                                                        | Rel-6              | RBSP-014 |
| RRC State indicator                  | CELL_DCH                                                                                                                                                           |                    | RBSP-015 |
| UTRAN DRX cycle length coefficient   | Not Present                                                                                                                                                        |                    | RBSP-016 |
| CN information info                  | Not Present                                                                                                                                                        |                    | RBSP-017 |
| URA identity                         | Not Present                                                                                                                                                        |                    | RBSP-018 |
| CHOICE specification mode            | Complete specification                                                                                                                                             | Rel-6              | RBSP-019 |
| - Signalling RB information to setup | Not Present                                                                                                                                                        |                    | RBSP-020 |
| - RAB information for setup list     |                                                                                                                                                                    |                    | RBSP-021 |
| - RAB information for setup          |                                                                                                                                                                    |                    | RBSP-022 |
| - RAB info                           | (AM DTCH for PS domain)                                                                                                                                            |                    | RBSP-023 |
| - RAB identity                       | 0000 0101B                                                                                                                                                         |                    | RBSP-024 |
|                                      | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.                                                                   |                    |          |

| Information Element                        | Value/remark                        | Version | Index    |
|--------------------------------------------|-------------------------------------|---------|----------|
| - CN domain identity                       | PS domain                           | Rel-5   | RBSP-025 |
| - NAS Synchronization Indicator            | Not Present                         |         | RBSP-026 |
| - Re-establishment timer                   | useT315                             |         | RBSP-027 |
| - RB information to setup                  |                                     |         | RBSP-028 |
| - RB identity                              | 20                                  |         | RBSP-029 |
| - PDCP info                                |                                     |         | RBSP-030 |
| - Support for lossless SRNS relocation     | FALSE                               |         | RBSP-031 |
| - Max PDCP SN window size                  | Not present                         |         | RBSP-032 |
| - PDCP PDU header                          | Absent                              |         | RBSP-033 |
| - Header compression information           | Not present                         |         | RBSP-034 |
| - CHOICE RLC info type                     | RLC info                            |         | RBSP-035 |
| - CHOICE Uplink RLC mode                   | AM RLC                              |         | RBSP-036 |
| - Transmission RLC discard                 |                                     |         | RBSP-037 |
| - CHOICE SDU discard mode                  | No Discard                          |         | RBSP-038 |
| - MAX_DAT                                  | 15                                  |         | RBSP-039 |
| - Transmission window size                 | 128                                 |         | RBSP-040 |
| - Timer_RST                                | 500                                 |         | RBSP-041 |
| - Max_RST                                  | 4                                   |         | RBSP-042 |
| - Polling info                             |                                     |         | RBSP-043 |
| - Timer_poll_prohibit                      | 200                                 |         | RBSP-044 |
| - Timer_poll                               | 200                                 |         | RBSP-045 |
| - Poll_PDU                                 | Not Present                         |         | RBSP-046 |
| - Poll_SDU                                 | 1                                   |         | RBSP-047 |
| - Last transmission PDU poll               | TRUE                                |         | RBSP-048 |
| - Last retransmission PDU poll             | TRUE                                |         | RBSP-049 |
| - Poll_Windows                             | 99                                  |         | RBSP-050 |
| - Timer_poll_periodic                      | Not Present                         |         | RBSP-051 |
| - CHOICE Downlink RLC mode                 | AM RLC                              |         | RBSP-052 |
| - DL RLC PDU size                          | Reference to clause 6 Parameter Set |         | RBSP-053 |
| - In-sequence delivery                     | TRUE                                |         | RBSP-054 |
| - Receiving window size                    | 128                                 |         | RBSP-055 |
| - Downlink RLC status info                 |                                     |         | RBSP-056 |
| - Timer_status_prohibit                    | 200                                 |         | RBSP-057 |
| - Timer_EPC                                | Not Present                         |         | RBSP-058 |
| - Missing PDU indicator                    | TRUE                                |         | RBSP-059 |
| - Timer_STATUS_periodic                    | Not Present                         |         | RBSP-060 |
| - RB mapping info                          |                                     |         | RBSP-061 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RBSP-062 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RBSP-063 |
| - Number of uplink RLC logical channels    | 1                                   |         | RBSP-064 |
| - Uplink transport channel type            | DCH                                 |         | RBSP-065 |
| - UL Transport channel identity            | 1                                   |         | RBSP-066 |
| - Logical channel identity                 | Not Present                         |         | RBSP-067 |
| - CHOICE RLC size list                     | Configured                          |         | RBSP-068 |
| - MAC logical channel priority             | 8                                   |         | RBSP-069 |
| - Downlink RLC logical channel info        |                                     |         | RBSP-070 |
| - Number of downlink RLC logical channels  | 1                                   |         | RBSP-071 |
| - Downlink transport channel type          | DCH                                 |         | RBSP-072 |
| - DL DCH Transport channel identity        | 6                                   |         | RBSP-073 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RBSP-074 |
| - Logical channel identity                 | Not Present                         |         | RBSP-075 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RBSP-076 |
| - Number of uplink RLC logical channels    | 1                                   |         | RBSP-077 |
| - Uplink transport channel type            | RACH                                |         | RBSP-078 |
| - UL Transport channel identity            | Not Present                         |         | RBSP-079 |
| - Logical channel identity                 | 7                                   |         | RBSP-080 |
| - CHOICE RLC size list                     | Explicit list                       |         | RBSP-081 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RBSP-082 |
| - MAC logical channel priority             | 8                                   |         | RBSP-083 |
| - Downlink RLC logical channel info        |                                     |         | RBSP-084 |
| - Number of downlink RLC logical channels  | 1                                   |         | RBSP-085 |
| - Downlink transport channel type          | FACH                                |         | RBSP-086 |
| - DL DCH Transport channel identity        | Not Present                         |         | RBSP-087 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RBSP-088 |
| - Logical channel identity                 | 7                                   |         | RBSP-089 |

| Information Element                                         | Value/remark                                                                                                           | Version | Index    |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------|----------|
| RB information to reconfigure list                          | Not Present                                                                                                            | Rel-6   | RBSP-090 |
| RB information to be affected list                          | Not Present                                                                                                            |         | RBSP-091 |
| Downlink counter synchronization info                       | Not Present                                                                                                            |         | RBSP-092 |
| UL Transport channel information for all transport channels |                                                                                                                        |         | RBSP-093 |
| - PRACH TFCS                                                | Not Present                                                                                                            |         | RBSP-094 |
| - CHOICE mode                                               | FDD                                                                                                                    |         | RBSP-095 |
| - TFC subset                                                | Not Present                                                                                                            |         | RBSP-096 |
| - UL DCH TFCS                                               |                                                                                                                        |         | RBSP-097 |
| - CHOICE TFCI signalling                                    | Normal                                                                                                                 |         | RBSP-098 |
| - TFCI Field 1 information                                  |                                                                                                                        |         | RBSP-099 |
| - CHOICE TFCS representation                                | Complete reconfiguration                                                                                               |         | RBSP-100 |
| - TFCS complete reconfigure information                     |                                                                                                                        |         | RBSP-101 |
| - CHOICE CTFC Size                                          | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set.               |         | RBSP-102 |
| - CTFC information                                          | This IE is repeated for TFC numbers and reference to clause 6.10.2.4 Parameter Set                                     |         | RBSP-103 |
| - CTFC                                                      | Reference to clause 6.10.2.4 Parameter Set                                                                             |         | RBSP-104 |
| - Power offset information                                  |                                                                                                                        |         | RBSP-105 |
| - CHOICE Gain Factors                                       | Computed Gain Factors(The last TFC is set to Signalled Gain Factors)                                                   |         | RBSP-106 |
| - Gain factor $\beta_c$                                     | 11 (below 64 kbps)<br>9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors) |         | RBSP-107 |
| - Gain factor $\beta_d$                                     | 15<br>(Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)                                         |         | RBSP-108 |
| - Reference TFC ID                                          | 0                                                                                                                      |         | RBSP-109 |
| - CHOICE mode                                               | FDD                                                                                                                    |         | RBSP-110 |
| - Power offset P <sub>p-m</sub>                             | Not Present                                                                                                            |         | RBSP-111 |
| Deleted UL TrCH information list                            | Not Present                                                                                                            |         | RBSP-112 |
| Added or Reconfigured UL TrCH information list              | 1                                                                                                                      |         | RBSP-113 |
| Added or Reconfigured UL TrCH information                   | 1 DCH added, 1 DCH reconfigured                                                                                        |         | RBSP-114 |
| - Uplink transport channel type                             | DCH                                                                                                                    |         | RBSP-115 |
| - UL Transport channel identity                             | 1                                                                                                                      |         | RBSP-116 |
| - TFS                                                       |                                                                                                                        |         | RBSP-117 |
| - CHOICE Transport channel type                             | Dedicated transport channels                                                                                           |         | RBSP-118 |
| - Dynamic Transport format information                      |                                                                                                                        |         | RBSP-119 |
| - RLC Size                                                  | Reference to clause 6.10 Parameter Set                                                                                 |         | RBSP-120 |
| - Number of TBs and TTI List                                | (This IE is repeated for TFI number.)                                                                                  |         | RBSP-121 |
| - Transmission Time Interval                                | Not Present                                                                                                            |         | RBSP-122 |
| - Number of Transport blocks                                | Reference to clause 6.10 Parameter Set                                                                                 |         | RBSP-123 |
| - CHOICE Logical channel list                               | All                                                                                                                    |         | RBSP-124 |
| - Semi-static Transport Format information                  |                                                                                                                        |         | RBSP-125 |
| - Transmission time interval                                | Reference to clause 6.10 Parameter Set                                                                                 |         | RBSP-126 |
| - Type of channel coding                                    | Reference to clause 6.10 Parameter Set                                                                                 |         | RBSP-127 |
| - Coding Rate                                               | Reference to clause 6.10 Parameter Set                                                                                 |         | RBSP-128 |
| - Rate matching attribute                                   | Reference to clause 6.10 Parameter Set                                                                                 |         | RBSP-129 |
| - CRC size                                                  | Reference to clause 6.10 Parameter Set                                                                                 |         | RBSP-130 |
| - Uplink transport channel type                             | DCH                                                                                                                    |         | RBSP-131 |
| - UL Transport channel identity                             | 5                                                                                                                      |         | RBSP-132 |
| - TFS                                                       |                                                                                                                        |         | RBSP-133 |
| - CHOICE Transport channel type                             | Dedicated transport channels                                                                                           |         | RBSP-134 |
| - Dynamic Transport format information                      |                                                                                                                        |         | RBSP-135 |
| - RLC Size                                                  | Reference to clause 6.10 Parameter Set                                                                                 |         | RBSP-136 |
| - Number of TBs and TTI List                                | (This IE is repeated for TFI number.)                                                                                  |         | RBSP-137 |
| - Transmission Time Interval                                | Not Present                                                                                                            |         | RBSP-138 |
| - Number of Transport blocks                                | Reference to clause 6.10 Parameter Set                                                                                 |         | RBSP-139 |
| - CHOICE Logical channel list                               | All                                                                                                                    |         | RBSP-140 |
| - Semi-static Transport Format information                  |                                                                                                                        |         | RBSP-141 |
| - Transmission time interval                                | Reference to clause 6.10 Parameter Set                                                                                 |         | RBSP-142 |
| - Type of channel coding                                    | Reference to clause 6.10 Parameter Set                                                                                 |         | RBSP-143 |
| - Coding Rate                                               | Reference to clause 6.10 Parameter Set                                                                                 |         | RBSP-144 |

| Information Element                                               | Value/remark                                                                                             | Version           | Index    |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------|----------|
| - Rate matching attribute                                         | Reference to clause 6.10 Parameter Set                                                                   |                   | RBSP-145 |
| - CRC size                                                        | Reference to clause 6.10 Parameter Set                                                                   |                   | RBSP-146 |
| CHOICE mode                                                       | Not Present                                                                                              |                   | RBSP-147 |
| DL Transport channel information common for all transport channel |                                                                                                          |                   | RBSP-148 |
| - SCCPCH TFCS                                                     | Not Present                                                                                              |                   | RBSP-149 |
| - CHOICE mode                                                     | FDD                                                                                                      |                   | RBSP-150 |
| - CHOICE DL parameters                                            | Explicit                                                                                                 |                   | RBSP-151 |
| - DL DCH TFCS                                                     |                                                                                                          |                   | RBSP-152 |
| - CHOICE TFCS Signalling                                          | Normal                                                                                                   |                   | RBSP-153 |
| - TFCS Field 1 Information                                        |                                                                                                          |                   | RBSP-154 |
| - CHOICE TFCS representation                                      | Complete reconfiguration                                                                                 |                   | RBSP-155 |
| - TFCS complete reconfigure                                       |                                                                                                          |                   | RBSP-156 |
| - CHOICE CTFC Size                                                | Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.2.4 Parameter Set. |                   | RBSP-157 |
| - CTFC information                                                | This IE is repeated for TFC numbers and reference to clause 6.10.2.4                                     |                   | RBSP-158 |
| - CTFC                                                            | Reference to clause 6.10.2.4 Parameter Set                                                               |                   | RBSP-159 |
| - Power offset information                                        | Not Present                                                                                              |                   | RBSP-160 |
| Added or Reconfigured DL TrCH information list                    | 1                                                                                                        |                   | RBSP-161 |
| Added or Reconfigured DL TrCH information                         | 2 TrCHs(DCH for DCCH and DCH for DTCH)                                                                   |                   | RBSP-162 |
| - Downlink transport channel type                                 | DCH                                                                                                      |                   | RBSP-163 |
| - DL Transport channel identity                                   | 10                                                                                                       |                   | RBSP-164 |
| - CHOICE DL parameters                                            | Same as UL                                                                                               |                   | RBSP-165 |
| - Uplink transport channel type                                   | DCH                                                                                                      |                   | RBSP-166 |
| - UL TrCH identity                                                | 5                                                                                                        |                   | RBSP-167 |
| - DCH quality target                                              |                                                                                                          |                   | RBSP-168 |
| - BLER Quality value                                              | -20 (-2.0)                                                                                               |                   | RBSP-169 |
| - Downlink transport channel type                                 | DCH                                                                                                      |                   | RBSP-170 |
| - DL Transport channel identity                                   | 6                                                                                                        |                   | RBSP-171 |
| - CHOICE DL parameters                                            | Explicit                                                                                                 |                   | RBSP-172 |
| - TFS                                                             |                                                                                                          |                   | RBSP-173 |
| - CHOICE Transport channel type                                   | Dedicated transport channel                                                                              |                   | RBSP-174 |
| - Dynamic transport format information                            |                                                                                                          |                   | RBSP-175 |
| - RLC Size                                                        | Reference to clause 6.10 Parameter Set                                                                   |                   | RBSP-176 |
| - Number of TBs and TTI List                                      | (This IE is repeated for TFI number.)                                                                    |                   | RBSP-177 |
| - Dynamic transport format information                            |                                                                                                          |                   | RBSP-178 |
| - Transmission Time Interval                                      | Not Present                                                                                              |                   | RBSP-179 |
| - Number of Transport blocks                                      | Reference to clause 6.10 Parameter Set                                                                   |                   | RBSP-180 |
| - CHOICE Logical channel list                                     | All                                                                                                      |                   | RBSP-181 |
| - Semi-static Transport Format information                        |                                                                                                          |                   | RBSP-182 |
| - Transmission time interval                                      | Reference to clause 6.10 Parameter Set                                                                   |                   | RBSP-183 |
| - Type of channel coding                                          | Reference to clause 6.10 Parameter Set                                                                   |                   | RBSP-184 |
| - Coding Rate                                                     | Reference to clause 6.10 Parameter Set                                                                   |                   | RBSP-185 |
| - Rate matching attribute                                         | Reference to clause 6.10 Parameter Set                                                                   |                   | RBSP-186 |
| - CRC size                                                        | Reference to clause 6.10 Parameter Set                                                                   |                   | RBSP-187 |
| - DCH quality target                                              |                                                                                                          |                   | RBSP-188 |
| - BLER Quality value                                              | -20 (-2.0)                                                                                               |                   | RBSP-189 |
| Frequency info                                                    | Not Present                                                                                              |                   | RBSP-190 |
| Multi-frequency Info                                              | Not present                                                                                              | Rel-7             | RBSP-191 |
| DTX-DRX timing information                                        | Not present                                                                                              | Rel-7             | RBSP-192 |
| DRX Information                                                   | Not present                                                                                              | Rel-7             | RBSP-193 |
| HS-SCCH less Information                                          | Not present                                                                                              | Rel-7             | RBSP-194 |
| MIMO parameters                                                   | Not present                                                                                              | Rel-7             | RBSP-195 |
| Maximum allowed UL TX power                                       | 33dBm                                                                                                    |                   | RBSP-196 |
| CHOICE channel requirement                                        | Uplink DPCH info                                                                                         | Rel-5 and earlier | RBSP-197 |
| Uplink DPCH info                                                  |                                                                                                          | Rel-6             | RBSP-198 |
| - Uplink DPCH power control info                                  |                                                                                                          |                   | RBSP-199 |
| - CHOICE mode                                                     | FDD                                                                                                      |                   | RBSP-200 |
| - DPCH power offset                                               | -40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active     |                   | RBSP-201 |
| - PC Preamble                                                     | 1 frame                                                                                                  |                   | RBSP-202 |



| Information Element                             | Value/remark                                                                  | Version               | Index    |
|-------------------------------------------------|-------------------------------------------------------------------------------|-----------------------|----------|
| - SRB delay                                     | 7 frames                                                                      |                       | RBSP-203 |
| - Power Control Algorithm                       | Algorithm1                                                                    |                       | RBSP-204 |
| - TPC step size                                 | 0 (1dB)                                                                       |                       | RBSP-205 |
| - $\Delta_{ACK}$                                | Not Present                                                                   | Rel-5                 | RBSP-206 |
| - $\Delta_{NACK}$                               | Not Present                                                                   | Rel-5                 | RBSP-207 |
| - Ack-Nack repetition factor                    | Not Present                                                                   | Rel-5                 | RBSP-208 |
| - CHOICE mode                                   | FDD                                                                           |                       | RBSP-209 |
| - Scrambling code type                          | Long                                                                          |                       | RBSP-210 |
| - Scrambling code number                        | 0 (0 to 16777215)                                                             |                       | RBSP-211 |
| - Number of DPDCH                               | 1                                                                             |                       | RBSP-212 |
| - spreading factor                              | 64                                                                            |                       | RBSP-213 |
| - TFCI existence                                | TRUE                                                                          |                       | RBSP-214 |
| - Number of FBI bit                             | Not Present(0)                                                                |                       | RBSP-215 |
| - Puncturing Limit                              | 1                                                                             |                       | RBSP-216 |
| CHOICE Mode                                     | FDD                                                                           | R99 and<br>Rel-4 only | RBSP-217 |
| E-DCH Info                                      | Not Present                                                                   | Rel-6                 | RBSP-218 |
| - Downlink PDSCH information                    | Not Present                                                                   | R99 and<br>Rel-4 only | RBSP-219 |
| Downlink HS-PDSCH Information                   | Not Present                                                                   | Rel-5                 | RBSP-220 |
| Downlink information common for all radio links |                                                                               |                       | RBSP-221 |
| - Downlink DPCH info common for all RL          |                                                                               |                       | RBSP-222 |
| - Timing indicator                              | Maintain                                                                      |                       | RBSP-223 |
| - CFN-targetSFN frame offset                    | Not Present                                                                   |                       | RBSP-224 |
| - Downlink DPCH power control information       |                                                                               |                       | RBSP-225 |
| - CHOICE mode                                   | FDD                                                                           |                       | RBSP-226 |
| - DPC mode                                      | 0 (single)                                                                    |                       | RBSP-227 |
| - CHOICE mode                                   | FDD                                                                           |                       | RBSP-228 |
| - Power offset $P_{Pilot-DPCH}$                 | 0                                                                             |                       | RBSP-229 |
| - DL rate matching restriction information      | Not Present                                                                   |                       | RBSP-230 |
| - Spreading factor                              | Reference to clause 6.10 Parameter Set                                        |                       | RBSP-231 |
| - Fixed or Flexible Position                    | Reference to clause 6.10 Parameter Set                                        |                       | RBSP-232 |
| - TFCI existence                                | Reference to clause 6.10 Parameter Set                                        |                       | RBSP-233 |
| - CHOICE SF                                     | Reference to clause 6.10 Parameter Set                                        |                       | RBSP-234 |
| - CHOICE mode                                   | FDD                                                                           |                       | RBSP-235 |
| - DPCH compressed mode info                     | Not Present                                                                   |                       | RBSP-236 |
| - TX Diversity mode                             | None                                                                          |                       | RBSP-237 |
| - SSDT information                              | Not Present                                                                   | R99 and<br>Rel-4 only | RBSP-238 |
| - Default DPCH Offset Value                     | Not Present                                                                   |                       | RBSP-239 |
| - MAC-hs reset indicator                        | Not Present                                                                   | Rel-5                 | RBSP-240 |
| - Post-verification period                      | Not Present                                                                   | Rel-6                 | RBSP-241 |
| Downlink information per radio link list        |                                                                               |                       | RBSP-242 |
| - Downlink information for each radio link      |                                                                               |                       | RBSP-243 |
| - CHOICE mode                                   | FDD                                                                           |                       | RBSP-244 |
| - Primary CPICH info                            |                                                                               |                       | RBSP-245 |
| - Primary scrambling code                       | Reference to clause 6.1 "Default settings (FDD)"                              |                       | RBSP-246 |
| - PDSCH with SHO DCH info                       | Not Present                                                                   | R99 and<br>Rel-4 only | RBSP-247 |
| - PDSCH code mapping                            | Not Present                                                                   | R99 and<br>Rel-4 only | RBSP-248 |
| - Downlink DPCH info for each RL                |                                                                               |                       | RBSP-249 |
| - CHOICE mode                                   | FDD                                                                           |                       | RBSP-250 |
| - Primary CPICH usage for channel estimation    | Primary CPICH may be used                                                     |                       | RBSP-251 |
| - DPCH frame offset                             | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |                       | RBSP-252 |
| - Secondary CPICH info                          | Not Present                                                                   |                       | RBSP-253 |
| - DL channelisation code                        |                                                                               |                       | RBSP-254 |
| - Secondary scrambling code                     | Not present                                                                   |                       | RBSP-255 |
| - Spreading factor                              | Reference to clause 6.10 Parameter Set                                        |                       | RBSP-256 |
| - Code number                                   | Depends upon radio bearer used.                                               |                       | RBSP-257 |
| - Scrambling code change                        | No change                                                                     |                       | RBSP-258 |
| - TPC combination index                         | 0                                                                             |                       | RBSP-259 |
| - SSDT Cell Identity                            | Not Present                                                                   | R99 and               | RBSP-260 |

| Information Element                     | Value/remark | Version            | Index    |
|-----------------------------------------|--------------|--------------------|----------|
| - Closed loop timing adjustment mode    | Not Present  | Rel-4 only         | RBSP-261 |
| - SCCPCH information for FACH           | Not Present  | R99 and Rel-4 only | RBSP-262 |
| MBMS PL Service Restriction Information | Not Present  | Rel-6              | RBSP-263 |

Contents of RADIO BEARER SETUP message: AM or UM (UE supports CS RAB for Test Loop Mode 2)

| Information Element                        | Value/remark                                                                                                                                                       | Version            | Index    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Message Type                               |                                                                                                                                                                    |                    | RBSC-001 |
| RRC transaction identifier                 | Arbitrarily selects an integer between 0 and 3                                                                                                                     |                    | RBSC-002 |
| Integrity check info                       |                                                                                                                                                                    |                    | RBSC-003 |
| - message authentication code              | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                    | RBSC-004 |
| - RRC message sequence number              | SS provides the value of this IE, from its internal counter.                                                                                                       |                    | RBSC-005 |
| Integrity protection mode info             | Not Present                                                                                                                                                        |                    | RBSC-006 |
| Ciphering mode info                        | Not Present                                                                                                                                                        |                    | RBSC-007 |
| Activation time                            | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$                                                                                                          |                    | RBSC-008 |
| New U-RNTI                                 | Not Present                                                                                                                                                        |                    | RBSC-009 |
| New C-RNTI                                 | Not Present                                                                                                                                                        |                    | RBSC-010 |
| New DSCH-RNTI                              | Not Present                                                                                                                                                        | R99 and Rel-4 only | RBSC-011 |
| New H-RNTI                                 | Not Present                                                                                                                                                        | Rel-5              | RBSC-012 |
| New Primary E-RNTI                         | Not Present                                                                                                                                                        | Rel-6              | RBSC-013 |
| New Secondary E-RNTI                       | Not Present                                                                                                                                                        | Rel-6              | RBSC-014 |
| RRC State indicator                        | CELL_DCH                                                                                                                                                           |                    | RBSC-015 |
| UTRAN DRX cycle length coefficient         | Not Present                                                                                                                                                        |                    | RBSC-016 |
| CN information info                        | Not Present                                                                                                                                                        |                    | RBSC-017 |
| URA identity                               | Not Present                                                                                                                                                        |                    | RBSC-018 |
| CHOICE specification mode                  | Complete specification                                                                                                                                             | Rel-6              | RBSC-019 |
| Signalling RB information to setup         | Not Present                                                                                                                                                        |                    | RBSC-020 |
| RAB information for setup list             |                                                                                                                                                                    |                    | RBSC-021 |
| - RAB information for setup                |                                                                                                                                                                    |                    | RBSC-022 |
| - RAB info                                 |                                                                                                                                                                    |                    | RBSC-023 |
| - RAB identity                             | 0000 0001B                                                                                                                                                         |                    | RBSC-024 |
|                                            | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.                                                                   |                    |          |
| - CN domain identity                       | CS domain                                                                                                                                                          |                    | RBSC-025 |
| - NAS Synchronization Indicator            | Not Present                                                                                                                                                        |                    | RBSC-026 |
| - Re-establishment timer                   | UseT314                                                                                                                                                            |                    | RBSC-027 |
| - RB information to setup list             |                                                                                                                                                                    |                    | RBSC-028 |
| - RB information to setup                  |                                                                                                                                                                    |                    | RBSC-029 |
| - RB identity                              | 10                                                                                                                                                                 |                    | RBSC-030 |
| - PDCP info                                | Not Present                                                                                                                                                        |                    | RBSC-031 |
| - CHOICE RLC info type                     | RLC info                                                                                                                                                           |                    | RBSC-032 |
| - CHOICE Uplink RLC mode                   | TM RLC                                                                                                                                                             |                    | RBSC-033 |
| - Transmission RLC discard                 | Not Present                                                                                                                                                        |                    | RBSC-034 |
| - Segmentation indication                  | FALSE                                                                                                                                                              |                    | RBSC-035 |
| - CHOICE Downlink RLC mode                 | TM RLC                                                                                                                                                             |                    | RBSC-036 |
| - Segmentation indication                  | FALSE                                                                                                                                                              |                    | RBSC-037 |
| - RB mapping info                          |                                                                                                                                                                    |                    | RBSC-038 |
| - Information for each multiplexing option |                                                                                                                                                                    |                    | RBSC-039 |
| - RLC logical channel mapping indicator    | Not Present                                                                                                                                                        |                    | RBSC-040 |
| - Number of uplink RLC logical channels    | 1                                                                                                                                                                  |                    | RBSC-041 |
| - Uplink transport channel type            | DCH                                                                                                                                                                |                    | RBSC-042 |
| - UL Transport channel identity            | 1                                                                                                                                                                  |                    | RBSC-043 |
| - Logical channel identity                 | Not Present                                                                                                                                                        |                    | RBSC-044 |
| - CHOICE RLC size list                     | Configured                                                                                                                                                         |                    | RBSC-045 |
| - MAC logical channel priority             | 7                                                                                                                                                                  |                    | RBSC-046 |
| - Downlink RLC logical channel info        |                                                                                                                                                                    |                    | RBSC-047 |
| - Number of downlink RLC logical           | 1                                                                                                                                                                  |                    | RBSC-048 |

| Information Element                                         | Value/remark                 | Version | Index    |
|-------------------------------------------------------------|------------------------------|---------|----------|
| channels                                                    |                              |         |          |
| - Downlink transport channel type                           | DCH                          |         | RBSC-049 |
| - DL DCH Transport channel identity                         | 6                            |         | RBSC-050 |
| - DL DSCH Transport channel identity                        | Not Present                  |         | RBSC-051 |
| - Logical channel identity                                  | Not Present                  |         | RBSC-052 |
| RB information to reconfigure list                          | Not Present                  | Rel-6   | RBSC-053 |
| RB information to be affected list                          | Not Present                  |         | RBSC-054 |
| Downlink counter synchronization info                       | Not Present                  |         | RBSC-055 |
| UL Transport channel information for all transport channels |                              |         | RBSC-056 |
| - PRACH TFCS                                                | Not Present                  |         | RBSC-057 |
| - CHOICE mode                                               | FDD                          |         | RBSC-058 |
| - TFC subset                                                | Not Present                  |         | RBSC-059 |
| - UL DCH TFCS                                               |                              |         | RBSC-060 |
| - CHOICE TFCI signalling                                    | Normal                       |         | RBSC-061 |
| - TFCI Field 1 information                                  |                              |         | RBSC-062 |
| - CHOICE TFCS representation                                | Complete reconfiguration     |         | RBSC-063 |
| - TFCS complete reconfigure information                     |                              |         | RBSC-064 |
| - CHOICE CTFC Size                                          | 2 bit CTFC                   |         | RBSC-065 |
| - CTFC information                                          | 4 TFCS                       |         | RBSC-066 |
| - 2bit CTFC                                                 | 0                            |         | RBSC-067 |
| - Power offset Information                                  |                              |         | RBSC-068 |
| - CHOICE Gain Factors                                       | Computed Gain Factors        |         | RBSC-069 |
| - Reference TFC ID                                          | 0                            |         | RBSC-070 |
| - CHOICE mode                                               | FDD                          |         | RBSC-071 |
| - Power offset $P_{p-m}$                                    | Not Present                  |         | RBSC-072 |
| - 2bit CTFC                                                 | 2                            |         | RBSC-073 |
| - Power offset Information                                  |                              |         | RBSC-074 |
| - CHOICE Gain Factors                                       | Computed Gain Factors        |         | RBSC-075 |
| - Reference TFC ID                                          | 0                            |         | RBSC-076 |
| - CHOICE mode                                               | FDD                          |         | RBSC-077 |
| - Power offset $P_{p-m}$                                    | Not Present                  |         | RBSC-078 |
| - 2bit CTFC                                                 | 1                            |         | RBSC-079 |
| - Power offset Information                                  |                              |         | RBSC-080 |
| - CHOICE Gain Factors                                       | Computed Gain Factors        |         | RBSC-081 |
| - Reference TFC ID                                          | 0                            |         | RBSC-082 |
| - CHOICE mode                                               | FDD                          |         | RBSC-083 |
| - Power offset $P_{p-m}$                                    | Not Present                  |         | RBSC-084 |
| - 2bit CTFC                                                 | 3                            |         | RBSC-085 |
| - Power offset Information                                  |                              |         | RBSC-086 |
| - CHOICE Gain Factors                                       | Signalled Gain Factors       |         | RBSC-087 |
| - CHOICE mode                                               | FDD                          |         | RBSC-088 |
| - Gain factor $\beta_c$                                     | 8                            |         | RBSC-089 |
| - Gain factor $\beta_d$                                     | 15                           |         | RBSC-090 |
| - Reference TFC ID                                          | 0                            |         | RBSC-091 |
| - CHOICE mode                                               | FDD                          |         | RBSC-092 |
| - Power offset $P_{p-m}$                                    | Not Present                  |         | RBSC-093 |
| Deleted UL TrCH information list                            | Not Present                  |         | RBSC-094 |
| Added or Reconfigured UL TrCH information list              | 1                            |         | RBSC-095 |
| - Added or Reconfigured UL TrCH information                 |                              |         | RBSC-096 |
| - Uplink transport channel type                             | DCH                          |         | RBSC-097 |
| - UL Transport channel identity                             | 1                            |         | RBSC-098 |
| - TFS                                                       |                              |         | RBSC-099 |
| - CHOICE Transport channel type                             | Dedicated transport channels |         | RBSC-100 |
| - Dynamic Transport Format Information                      |                              |         | RBSC-101 |
| - RLC size                                                  | 260 bits                     |         | RBSC-102 |
| - Number of TBs and TTI List                                | 2                            |         | RBSC-103 |
| - Transmission Time Interval                                | Not Present                  |         | RBSC-104 |
| - Number of Transport blocks                                | 0                            |         | RBSC-105 |
| - Transmission Time Interval                                | Not Present                  |         | RBSC-106 |
| - Number of Transport blocks                                | 1                            |         | RBSC-107 |
| - CHOICE Logical channel List                               | ALL                          |         | RBSC-108 |
| - Semi-static Transport Format Information                  |                              |         | RBSC-109 |
| - Transmission time interval                                | 20                           |         | RBSC-110 |
| - Type of channel coding                                    | Convolutional                |         | RBSC-111 |

| Information Element                                               | Value/remark                                                                                         | Version            | Index    |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------|----------|
| - Coding Rate                                                     | 1/3                                                                                                  |                    | RBSC-112 |
| - Rate matching attribute                                         | 256                                                                                                  |                    | RBSC-113 |
| - CRC size                                                        | 0                                                                                                    |                    | RBSC-114 |
| CHOICE mode                                                       | Not Present                                                                                          |                    | RBSC-115 |
| DL Transport channel information common for all transport channel |                                                                                                      |                    | RBSC-116 |
| - SCCPCH TFCS                                                     | Not Present                                                                                          |                    | RBSC-117 |
| - CHOICE mode                                                     | FDD                                                                                                  |                    | RBSC-118 |
| - CHOICE DL parameters                                            | Same as UL                                                                                           |                    | RBSC-119 |
| Deleted DL TrCH information list                                  | Not Present                                                                                          |                    | RBSC-120 |
| Added or Reconfigured DL TrCH information list                    | 1                                                                                                    |                    | RBSC-121 |
| - Added or Reconfigured DL TrCH information                       |                                                                                                      |                    | RBSC-122 |
| - Downlink transport channel type                                 | DCH                                                                                                  |                    | RBSC-123 |
| - DL Transport channel identity                                   | 6                                                                                                    |                    | RBSC-124 |
| - CHOICE DL parameters                                            |                                                                                                      |                    | RBSC-125 |
| - CHOICE Transport channel type                                   | Dedicated transport channels                                                                         |                    | RBSC-126 |
| - Dynamic Transport Format Information                            |                                                                                                      |                    | RBSC-127 |
| - RLC size                                                        | 244 bits                                                                                             |                    | RBSC-128 |
| - Number of TBs and TTI List                                      | 2                                                                                                    |                    | RBSC-129 |
| - Transmission Time Interval                                      | Not Present                                                                                          |                    | RBSC-130 |
| - Number of Transport blocks                                      | 0                                                                                                    |                    | RBSC-131 |
| - Transmission Time Interval                                      | Not Present                                                                                          |                    | RBSC-132 |
| - Number of Transport blocks                                      | 1                                                                                                    |                    | RBSC-133 |
| - CHOICE Logical channel List                                     | ALL                                                                                                  |                    | RBSC-134 |
| - Semi-static Transport Format Information                        |                                                                                                      |                    | RBSC-135 |
| - Transmission time interval                                      | 20                                                                                                   |                    | RBSC-136 |
| - Type of channel coding                                          | Convolutional                                                                                        |                    | RBSC-137 |
| - Coding Rate                                                     | 1/3                                                                                                  |                    | RBSC-138 |
| - Rate matching attribute                                         | 256                                                                                                  |                    | RBSC-139 |
| - CRC size                                                        | 16                                                                                                   |                    | RBSC-140 |
| - DCH quality target                                              |                                                                                                      |                    | RBSC-141 |
| - BLER Quality value                                              | -20 (-2.0)                                                                                           |                    | RBSC-142 |
| Frequency info                                                    | Not Present                                                                                          |                    | RBSC-143 |
| Multi-frequency Info                                              | Not present                                                                                          | Rel-7              | RBSC-144 |
| DTX-DRX timing information                                        | Not present                                                                                          | Rel-7              | RBSC-145 |
| DRX Information                                                   | Not present                                                                                          | Rel-7              | RBSC-146 |
| HS-SCCH less Information                                          | Not present                                                                                          | Rel-7              | RBSC-147 |
| MIMO parameters                                                   | Not present                                                                                          | Rel-7              | RBSC-148 |
| Maximum allowed UL TX power                                       | 33dBm                                                                                                |                    | RBSC-149 |
| CHOICE channel requirement                                        | Uplink DPCH info                                                                                     | Rel-5 and earlier  | RBSC-150 |
| Uplink DPCH info                                                  |                                                                                                      | Rel-6              | RBSC-151 |
| - Uplink DPCH power control info                                  |                                                                                                      |                    | RBSC-152 |
| - CHOICE mode                                                     | FDD                                                                                                  |                    | RBSC-153 |
| - DPCH power offset                                               | -40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active |                    | RBSC-154 |
| - PC Preamble                                                     | 1 frame                                                                                              |                    | RBSC-155 |
| - SRB delay                                                       | 7 frames                                                                                             |                    | RBSC-156 |
| - Power Control Algorithm                                         | Algorithm1                                                                                           |                    | RBSC-157 |
| - TPC step size                                                   | 0 (1dB)                                                                                              |                    | RBSC-158 |
| - $\Delta_{ACK}$                                                  | Not Present                                                                                          | Rel-5              | RBSC-159 |
| - $\Delta_{NACK}$                                                 | Not Present                                                                                          | Rel-5              | RBSC-160 |
| - Ack-Nack repetition factor                                      | Not Present                                                                                          | Rel-5              | RBSC-161 |
| - CHOICE mode                                                     | FDD                                                                                                  |                    | RBSC-162 |
| - Scrambling code type                                            | Long                                                                                                 |                    | RBSC-163 |
| - Scrambling code number                                          | 0 (0 to 16777215)                                                                                    |                    | RBSC-164 |
| - Number of DPDCH                                                 | 1                                                                                                    |                    | RBSC-165 |
| - spreading factor                                                | 64                                                                                                   |                    | RBSC-166 |
| - TFCI existence                                                  | TRUE                                                                                                 |                    | RBSC-167 |
| - Number of FBI bit                                               | Not Present(0)                                                                                       |                    | RBSC-168 |
| - Puncturing Limit                                                | 1                                                                                                    |                    | RBSC-169 |
| CHOICE Mode                                                       | FDD                                                                                                  | R99 and Rel-4 only | RBSC-170 |
| - Downlink PDSCH information                                      | Not Present                                                                                          | R99 and Rel-4 only | RBSC-171 |
| E-DCH Info                                                        | Not Present                                                                                          | Rel-6              | RBSC-172 |

| Information Element                             | Value/remark                                                                  | Version            | Index    |
|-------------------------------------------------|-------------------------------------------------------------------------------|--------------------|----------|
| Downlink HS-PDSCH Information                   | Not Present                                                                   | Rel-5              | RBSC-173 |
| Downlink information common for all radio links |                                                                               |                    | RBSC-174 |
| - Downlink DPCH info common for all RL          |                                                                               |                    | RBSC-175 |
| - Timing indicator                              | Maintain                                                                      |                    | RBSC-176 |
| - CFN-targetSFN frame offset                    | Not Present                                                                   |                    | RBSC-177 |
| - Downlink DPCH power control information       |                                                                               |                    | RBSC-178 |
| - CHOICE mode                                   | FDD                                                                           |                    | RBSC-179 |
| - DPC mode                                      | 0 (single)                                                                    |                    | RBSC-180 |
| - CHOICE mode                                   | FDD                                                                           |                    | RBSC-181 |
| - Power offset $P_{\text{Pilot-DPCH}}$          | 0                                                                             |                    | RBSC-182 |
| - DL rate matching restriction information      | Not Present                                                                   |                    | RBSC-183 |
| - Spreading factor                              | 128                                                                           |                    | RBSC-184 |
| - Fixed or Flexible Position                    | Fixed                                                                         |                    | RBSC-185 |
| - TFCI existence                                | TRUE                                                                          |                    | RBSC-186 |
| - CHOICE SF                                     | 128                                                                           |                    | RBSC-187 |
| - Number of bits for Pilot bits                 | 8                                                                             |                    | RBSC-188 |
| - CHOICE mode                                   | FDD                                                                           |                    | RBSC-189 |
| - DPCH compressed mode info                     | Not Present                                                                   |                    | RBSC-190 |
| - TX Diversity mode                             | None                                                                          |                    | RBSC-191 |
| - SSDT information                              | Not Present                                                                   | R99 and Rel-4 only | RBSC-192 |
| - Default DPCH Offset Value                     | Not Present                                                                   |                    | RBSC-193 |
| - MAC-hs reset indicator                        | Not Present                                                                   | Rel-5              | RBSC-194 |
| - Post-verification period                      | Not Present                                                                   | Rel-6              | RBSC-195 |
| Downlink information for per radio link list    |                                                                               |                    | RBSC-196 |
| - Downlink information for each radio link      |                                                                               |                    | RBSC-197 |
| - CHOICE mode                                   | FDD                                                                           |                    | RBSC-198 |
| - Primary CPICH info                            |                                                                               |                    | RBSC-199 |
| - Primary scrambling code                       | Reference to clause 6.1 "Default settings (FDD)"                              |                    | RBSC-200 |
| - PDSCH with SHO DCH info                       | Not Present                                                                   | R99 and Rel-4 only | RBSC-201 |
| - PDSCH code mapping                            | Not Present                                                                   | R99 and Rel-4 only | RBSC-202 |
| - Downlink DPCH info for each RL                |                                                                               |                    | RBSC-203 |
| - CHOICE mode                                   | FDD                                                                           |                    | RBSC-204 |
| - Primary CPICH usage for channel estimation    | Primary CPICH may be used                                                     |                    | RBSC-205 |
| - DPCH frame offset                             | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |                    | RBSC-206 |
| - Secondary CPICH info                          | Not Present                                                                   |                    | RBSC-207 |
| - DL channelisation code                        |                                                                               |                    | RBSC-208 |
| - Secondary scrambling code                     | Not Present                                                                   |                    | RBSC-209 |
| - Spreading factor                              | 128                                                                           |                    | RBSC-210 |
| - Code number                                   | 96                                                                            |                    | RBSC-211 |
| - Scrambling code change                        | No change                                                                     |                    | RBSC-212 |
| - TPC combination index                         | 0                                                                             |                    | RBSC-213 |
| - SSDT Cell Identity                            | Not Present                                                                   | R99 and Rel-4 only | RBSC-214 |
| - Closed loop timing adjustment mode            | Not Present                                                                   |                    | RBSC-215 |
| - SCCPCH information for FACH                   | Not Present                                                                   | R99 and Rel-4 only | RBSC-216 |
| MBMS PL Service Restriction Information         | Not Present                                                                   | Rel-6              | RBSC-217 |

| Information Element            | Condition | Value/remark                                                                                                                                                       | Version | Index    |
|--------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                   | A1,A2     |                                                                                                                                                                    |         | RBS2-001 |
| RRC transaction identifier     |           | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBS2-002 |
| Integrity check info           |           |                                                                                                                                                                    |         | RBS2-003 |
| - message authentication code  |           | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | RBS2-004 |
| - RRC message sequence number  |           | SS provides the value of this IE, from its internal counter.                                                                                                       |         | RBS2-005 |
| Integrity protection mode info |           | Not Present                                                                                                                                                        |         | RBS2-006 |

| Information Element                                         | Condition | Value/remark                                                                                                   | Version            | Index    |
|-------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Ciphering mode info                                         |           | Not Present                                                                                                    | R99 and Rel-4 only | RBS2-007 |
| Activation time                                             |           | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$                                                      |                    | RBS2-008 |
| New U-RNTI                                                  |           | Not Present                                                                                                    |                    | RBS2-009 |
| New C-RNTI                                                  |           | Not Present                                                                                                    |                    | RBS2-010 |
| New DSCH-RNTI                                               |           | Not Present                                                                                                    |                    | RBS2-011 |
| New H-RNTI                                                  |           | Not Present                                                                                                    | Rel-5              | RBS2-012 |
| New Primary E-RNTI                                          |           | Not Present                                                                                                    | Rel-6              | RBS2-013 |
| New Secondary E-RNTI                                        |           | Not Present                                                                                                    | Rel-6              | RBS2-014 |
| RRC State indicator                                         |           | CELL_DCH                                                                                                       |                    | RBS2-015 |
| UTRAN DRX cycle length coefficient                          |           | Not Present                                                                                                    |                    | RBS2-016 |
| CN information info                                         |           | Not Present                                                                                                    |                    | RBS2-017 |
| URA identity                                                |           | Not Present                                                                                                    |                    | RBS2-018 |
| CHOICE specification mode                                   |           | Complete specification                                                                                         | Rel-6              | RBS2-019 |
| Signalling RB information to setup                          |           | Not Present                                                                                                    |                    | RBS2-020 |
| RAB information for setup list                              |           |                                                                                                                |                    | RBS2-021 |
| - RAB information for setup                                 |           |                                                                                                                |                    | RBS2-022 |
| - RAB info                                                  |           |                                                                                                                |                    | RBS2-023 |
| - RAB identity                                              |           | 0000 0001B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |                    | RBS2-024 |
| - CN domain identity                                        |           | CS domain                                                                                                      |                    | RBS2-025 |
| - NAS Synchronization Indicator                             |           | Not Present                                                                                                    |                    | RBS2-026 |
| - Re-establishment timer                                    |           | UseT314                                                                                                        |                    | RBS2-027 |
| - RB information to setup list                              |           |                                                                                                                |                    | RBS2-028 |
| - RB information to setup                                   |           |                                                                                                                |                    | RBS2-029 |
| - RB identity                                               |           | 10                                                                                                             |                    | RBS2-030 |
| - PDCP info                                                 |           | Not Present                                                                                                    |                    | RBS2-031 |
| - CHOICE RLC info type                                      |           | RLC info                                                                                                       |                    | RBS2-032 |
| - CHOICE Uplink RLC mode                                    |           | TM RLC                                                                                                         |                    | RBS2-033 |
| - Transmission RLC discard                                  |           | Not Present                                                                                                    |                    | RBS2-034 |
| - Segmentation indication                                   |           | FALSE                                                                                                          |                    | RBS2-035 |
| - CHOICE Downlink RLC mode                                  |           | TM RLC                                                                                                         |                    | RBS2-036 |
| - Segmentation indication                                   |           | FALSE                                                                                                          |                    | RBS2-037 |
| - RB mapping info                                           |           |                                                                                                                |                    | RBS2-038 |
| - Information for each multiplexing option                  |           |                                                                                                                |                    | RBS2-039 |
| - RLC logical channel mapping indicator                     |           | Not Present                                                                                                    |                    | RBS2-040 |
| - Number of uplink RLC logical channels                     |           | 1                                                                                                              |                    | RBS2-041 |
| - Uplink transport channel type                             |           | DCH                                                                                                            |                    | RBS2-042 |
| - UL Transport channel identity                             |           | 1                                                                                                              |                    | RBS2-043 |
| - Logical channel identity                                  |           | Not Present                                                                                                    |                    | RBS2-044 |
| - CHOICE RLC size list                                      |           | Configured                                                                                                     |                    | RBS2-045 |
| - MAC logical channel priority                              |           | 7                                                                                                              |                    | RBS2-046 |
| - Downlink RLC logical channel info                         |           |                                                                                                                |                    | RBS2-047 |
| - Number of downlink RLC logical channels                   |           | 1                                                                                                              |                    | RBS2-048 |
| - Downlink transport channel type                           |           | DCH                                                                                                            |                    | RBS2-049 |
| - DL DCH Transport channel identity                         |           | 6                                                                                                              |                    | RBS2-050 |
| - DL DSCH Transport channel identity                        |           | Not Present                                                                                                    |                    | RBS2-051 |
| - Logical channel identity                                  |           | Not Present                                                                                                    |                    | RBS2-052 |
| RB information to reconfigure list                          |           | Not Present                                                                                                    | Rel-6              | RBS2-053 |
| RB information to be affected list                          |           | Not Present                                                                                                    |                    | RBS2-054 |
| Downlink counter synchronization info                       |           | Not Present                                                                                                    |                    | RBS2-055 |
| UL Transport channel information for all transport channels |           |                                                                                                                |                    | RBS2-056 |
| - PRACH TFCS                                                |           | Not Present                                                                                                    |                    | RBS2-057 |
| - CHOICE mode                                               |           | FDD                                                                                                            |                    | RBS2-058 |
| - TFC subset                                                |           | Not Present                                                                                                    |                    | RBS2-059 |
| - UL DCH TFCS                                               |           |                                                                                                                |                    | RBS2-060 |
| - CHOICE TFCI signalling                                    |           | Normal                                                                                                         |                    | RBS2-061 |
| - TFCI Field 1 information                                  |           |                                                                                                                |                    | RBS2-062 |
| - CHOICE TFCS representation                                |           | Complete reconfiguration                                                                                       |                    | RBS2-063 |
| - TFCS complete reconfigure                                 |           |                                                                                                                |                    | RBS2-064 |
| information                                                 |           |                                                                                                                |                    |          |
| - CHOICE CTFC Size                                          | A1        | 2 bit CTFC                                                                                                     |                    | RBS2-065 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Condition | Value/remark           | Version | Index    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> <li>- 2bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> <li>- 2bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> <li>- 2bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> <li>- 2bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- CHOICE mode</li> <li>- Gain factor <math>\beta_c</math></li> <li>- Gain factor <math>\beta_d</math></li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> </ul>                                                                                                                                                                                                                                                                 |           | 4 TFCs                 |         | RBS2-066 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 0                      |         | RBS2-067 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                        |         | RBS2-068 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Computed Gain Factors  |         | RBS2-069 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 0                      |         | RBS2-070 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | FDD                    |         | RBS2-071 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Not Present            |         | RBS2-072 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 2                      |         | RBS2-073 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                        |         | RBS2-074 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Computed Gain Factors  |         | RBS2-075 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 0                      |         | RBS2-076 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | FDD                    |         | RBS2-077 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Not Present            |         | RBS2-078 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 1                      |         | RBS2-079 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                        |         | RBS2-080 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Computed Gain Factors  |         | RBS2-081 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 0                      |         | RBS2-082 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | FDD                    |         | RBS2-083 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Not Present            |         | RBS2-084 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 3                      |         | RBS2-085 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                        |         | RBS2-086 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Signalled Gain Factors |         | RBS2-087 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | FDD                    |         | RBS2-088 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 8                      |         | RBS2-089 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 15                     |         | RBS2-090 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 0                      |         | RBS2-091 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | FDD                    |         | RBS2-092 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Not Present            |         | RBS2-093 |
| <ul style="list-style-type: none"> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- 4bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> <li>- 4bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> <li>- 4bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> <li>- 4bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> <li>- 4bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> <li>- 4bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> <li>- 4bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- CHOICE mode</li> <li>- Gain factor <math>\beta_c</math></li> </ul> | A2        | 4 bit CTFC             |         | RBS2-094 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 6 TFCs                 |         | RBS2-095 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 0                      |         | RBS2-096 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                        |         | RBS2-097 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Computed Gain Factors  |         | RBS2-098 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 0                      |         | RBS2-099 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | FDD                    |         | RBS2-100 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Not Present            |         | RBS2-101 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 3                      |         | RBS2-102 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                        |         | RBS2-103 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Computed Gain Factors  |         | RBS2-104 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 0                      |         | RBS2-105 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | FDD                    |         | RBS2-106 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Not Present            |         | RBS2-107 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 1                      |         | RBS2-108 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                        |         | RBS2-109 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Computed Gain Factors  |         | RBS2-110 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 0                      |         | RBS2-111 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | FDD                    |         | RBS2-112 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Not Present            |         | RBS2-113 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 4                      |         | RBS2-114 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                        |         | RBS2-115 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Computed Gain Factors  |         | RBS2-116 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 0                      |         | RBS2-117 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | FDD                    |         | RBS2-118 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Not Present            |         | RBS2-119 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 2                      |         | RBS2-120 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                        |         | RBS2-121 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Computed Gain Factors  |         | RBS2-122 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 0                      |         | RBS2-123 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | FDD                    |         | RBS2-124 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Not Present            |         | RBS2-125 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 5                      |         | RBS2-126 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                        |         | RBS2-127 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Signalled Gain Factors |         | RBS2-128 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | FDD                    |         | RBS2-129 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | 8                      |         | RBS2-130 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Condition | Value/remark                                                                                                                                            | Version | Index                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Gain factor <math>\beta_d</math></li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 15<br>0<br>FDD<br>Not Present                                                                                                                           |         | RBS2-131<br>RBS2-132<br>RBS2-133<br>RBS2-134                                                                                                                                                                         |
| Deleted UL TrCH information list<br>Added or Reconfigured UL TrCH information list <ul style="list-style-type: none"> <li>- Added or Reconfigured UL TrCH information</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                      | A1,A2     | Not Present<br>1<br><br>DCH<br>1<br><br>Dedicated transport channels                                                                                    |         | RBS2-135<br>RBS2-136<br>RBS2-137<br><br>RBS2-138<br>RBS2-139<br>RBS2-140<br>RBS2-141                                                                                                                                 |
| <ul style="list-style-type: none"> <li>- Dynamic Transport Format Information</li> <li>- RLC size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel List</li> </ul>                                                                                                                                                                                                                                                                                                                                                                               | A1        | 260 bits<br>2<br>Not Present<br>0<br>Not Present<br>1<br>ALL                                                                                            |         | RBS2-142<br>RBS2-143<br>RBS2-144<br>RBS2-145<br>RBS2-146<br>RBS2-147<br>RBS2-148<br>RBS2-149                                                                                                                         |
| <ul style="list-style-type: none"> <li>- Dynamic Transport Format Information</li> <li>- RLC size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel List</li> <li>- Dynamic Transport Format Information</li> <li>- RLC size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel List</li> <li>- Dynamic Transport Format Information</li> <li>- RLC size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel List</li> </ul> | A2        | 260 bits<br>1<br>Not Present<br>0<br>ALL<br><br>16 bits<br>1<br>Not Present<br>1<br>ALL<br><br>260 bits<br>1<br>Not Present<br>1<br>ALL                 |         | RBS2-150<br>RBS2-151<br>RBS2-152<br>RBS2-153<br>RBS2-154<br>RBS2-155<br>RBS2-156<br>RBS2-157<br>RBS2-158<br>RBS2-159<br>RBS2-160<br>RBS2-161<br>RBS2-162<br>RBS2-163<br>RBS2-164<br>RBS2-165<br>RBS2-166<br>RBS2-167 |
| <ul style="list-style-type: none"> <li>- Semi-static Transport Format Information</li> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul> CHOICE mode<br>DL Transport channel information common for all transport channel <ul style="list-style-type: none"> <li>- SCCPCH TFCS</li> <li>- CHOICE mode</li> </ul>                                                                                                                                                                                                                                                                                                      | A1,A2     | 20<br>Convolutional<br>1/3<br>256<br>0<br>Not Present<br><br>Not Present<br>FDD                                                                         |         | RBS2-168<br>RBS2-169<br>RBS2-170<br>RBS2-171<br>RBS2-172<br>RBS2-173<br>RBS2-174<br>RBS2-175<br><br>RBS2-176<br>RBS2-177                                                                                             |
| - CHOICE DL parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | A1        | Same as UL                                                                                                                                              |         | RBS2-178                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>- CHOICE DL parameters</li> <li>- DL DCH TFCS</li> <li>- CHOICE TFCS signalling</li> <li>- TFCS Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfigure information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- 4bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> <li>- 4bit CTFC</li> <li>- Power offset Information</li> </ul>                                                                                                                                                           | A2        | DL DCH TFCS<br><br>Normal<br><br>Complete reconfiguration<br><br>4 bit CTFC<br>4 TFCs<br>0<br><br>Computed Gain Factors<br>0<br>FDD<br>Not Present<br>2 |         | RBS2-179<br>RBS2-180<br>RBS2-181<br>RBS2-182<br>RBS2-183<br>RBS2-184<br><br>RBS2-185<br>RBS2-186<br>RBS2-187<br>RBS2-188<br>RBS2-189<br>RBS2-190<br>RBS2-191<br>RBS2-192<br>RBS2-193<br>RBS2-194                     |



| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Condition | Value/remark                                                                                                                                                                                                     | Version                 | Index                                                                                                                                                                                                                            |
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| <ul style="list-style-type: none"> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> <li>- 4bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> <li>- 4bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- CHOICE mode</li> <li>- Gain factor <math>\beta_c</math></li> <li>- Gain factor <math>\beta_d</math></li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset <math>P_{p-m}</math></li> </ul> |           | Computed Gain Factors<br>0<br>FDD<br>Not Present<br>1<br>Computed Gain Factors<br>0<br>FDD<br>Not Present<br>3<br>Signalled Gain Factors<br>FDD<br>8<br>15<br>0<br>FDD<br>Not Present                            |                         | RBS2-195<br>RBS2-196<br>RBS2-197<br>RBS2-198<br>RBS2-199<br>RBS2-200<br>RBS2-201<br>RBS2-202<br>RBS2-203<br>RBS2-204<br>RBS2-205<br>RBS2-206<br>RBS2-207<br>RBS2-208<br>RBS2-209<br>RBS2-210<br>RBS2-211<br>RBS2-212<br>RBS2-213 |
| Deleted DL TrCH information list<br>Added or Reconfigured DL TrCH information list<br>- Added or Reconfigured DL TrCH information<br>- Downlink transport channel type<br>- DL Transport channel identity<br>- CHOICE DL parameters<br>- CHOICE Transport channel type                                                                                                                                                                                                                                                                                                                                                                                                 | A1,A2     | Not Present<br>1<br>DCH<br>6<br>Dedicated transport channels                                                                                                                                                     |                         | RBS2-214<br>RBS2-215<br>RBS2-216<br>RBS2-217<br>RBS2-218<br>RBS2-219<br>RBS2-220                                                                                                                                                 |
| - Dynamic Transport Format Information<br>- RLC size<br>- Number of TBs and TTI List<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel List                                                                                                                                                                                                                                                                                                                                                                                                                  | A1        | 244 bits<br>2<br>Not Present<br>0<br>Not Present<br>1<br>ALL                                                                                                                                                     |                         | RBS2-221<br>RBS2-222<br>RBS2-223<br>RBS2-224<br>RBS2-225<br>RBS2-226<br>RBS2-227<br>RBS2-228                                                                                                                                     |
| - Dynamic Transport Format Information<br>- RLC size<br>- Number of TBs and TTI List<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel List<br>- Dynamic Transport Format Information<br>- RLC size<br>- Number of TBs and TTI List<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel List                                                                                                                                                                                                                                                                                         | A2        | 0 bits<br>1<br>Not Present<br>1<br>ALL<br>244 bits<br>1<br>Not Present<br>1<br>ALL                                                                                                                               |                         | RBS2-229<br>RBS2-230<br>RBS2-231<br>RBS2-232<br>RBS2-233<br>RBS2-234<br>RBS2-235<br>RBS2-236<br>RBS2-237<br>RBS2-238<br>RBS2-239<br>RBS2-240                                                                                     |
| - Semi-static Transport Format Information<br>- Transmission time interval<br>- Type of channel coding<br>- Coding Rate<br>- Rate matching attribute<br>- CRC size<br>- DCH quality target<br>- BLER Quality value<br>Frequency info<br>Maximum allowed UL TX power<br>CHOICE channel requirement<br>Uplink DPCH info<br>- Uplink DPCH power control info<br>- CHOICE mode<br>- DPCCH power offset                                                                                                                                                                                                                                                                     | A1,A2     | 20<br>Convolutional<br>1/3<br>256<br>16<br>-20 (-2.0)<br>Not Present<br>33dBm<br>Uplink DPCH info<br>FDD<br>-40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active | Rel-5 and earlier Rel-6 | RBS2-241<br>RBS2-242<br>RBS2-243<br>RBS2-244<br>RBS2-245<br>RBS2-246<br>RBS2-247<br>RBS2-248<br>RBS2-249<br>RBS2-250<br>RBS2-251<br>RBS2-252<br>RBS2-253<br>RBS2-254<br>RBS2-255                                                 |

| Information Element                             | Condition   | Value/remark                                                                  | Version            | Index    |
|-------------------------------------------------|-------------|-------------------------------------------------------------------------------|--------------------|----------|
| - PC Preamble                                   |             | 1 frame                                                                       |                    | RBS2-256 |
| - SRB delay                                     |             | 7 frames                                                                      |                    | RBS2-257 |
| - Power Control Algorithm                       |             | Algorithm1                                                                    |                    | RBS2-258 |
| - TPC step size                                 |             | 0 (1dB)                                                                       |                    | RBS2-259 |
| - $\Delta_{ACK}$                                |             | Not Present                                                                   | Rel-5              | RBS2-260 |
| - $\Delta_{NACK}$                               |             | Not Present                                                                   | Rel-5              | RBS2-261 |
| - Ack-Nack repetition factor                    |             | Not Present                                                                   | Rel-5              | RBS2-262 |
| - CHOICE mode                                   |             | FDD                                                                           |                    | RBS2-263 |
| - Scrambling code type                          |             | Long                                                                          |                    | RBS2-264 |
| - Scrambling code number                        |             | 0 (0 to 16777215)                                                             |                    | RBS2-265 |
| - Number of DPDCH                               |             | 1                                                                             |                    | RBS2-266 |
| - spreading factor                              |             | 64                                                                            |                    | RBS2-267 |
| - TFCI existence                                |             | TRUE                                                                          |                    | RBS2-268 |
| - Number of FBI bit                             |             | Not Present(0)                                                                |                    | RBS2-269 |
| - Puncturing Limit                              |             | 1                                                                             |                    | RBS2-270 |
| CHOICE Mode                                     |             | FDD                                                                           | R99 and Rel-4 only | RBS2-271 |
| - Downlink PDSCH information                    |             | Not Present                                                                   | R99 and Rel-4 only | RBS2-272 |
| E-DCH Info                                      |             | Not Present                                                                   | Rel-6              | RBS2-273 |
| Downlink HS-PDSCH Information                   |             | Not Present                                                                   | Rel-5              | RBS2-274 |
| Downlink information common for all radio links |             |                                                                               |                    | RBS2-275 |
| - Downlink DPCH info common for all RL          |             |                                                                               |                    | RBS2-276 |
| - Timing indicator                              | Maintain    |                                                                               |                    | RBS2-277 |
| - CFN-targetSFN frame offset                    | Not Present |                                                                               |                    | RBS2-278 |
| - Downlink DPCH power control information       |             |                                                                               |                    | RBS2-279 |
| - CHOICE mode                                   |             | FDD                                                                           |                    | RBS2-280 |
| - DPC mode                                      |             | 0 (single)                                                                    |                    | RBS2-281 |
| - CHOICE mode                                   |             | FDD                                                                           |                    | RBS2-282 |
| - Power offset $P_{Pilot-DPDCH}$                |             | 0                                                                             |                    | RBS2-283 |
| - DL rate matching restriction information      |             | Not Present                                                                   |                    | RBS2-284 |
| - Spreading factor                              |             | 128                                                                           |                    | RBS2-285 |
| - Fixed or Flexible Position                    |             | Fixed                                                                         |                    | RBS2-286 |
| - TFCI existence                                |             | TRUE                                                                          |                    | RBS2-287 |
| - CHOICE SF                                     |             | 128                                                                           |                    | RBS2-288 |
| - Number of bits for Pilot bits                 |             | 8                                                                             |                    | RBS2-289 |
| - CHOICE mode                                   |             | FDD                                                                           |                    | RBS2-290 |
| - DPCH compressed mode info                     |             | Not Present                                                                   |                    | RBS2-291 |
| - TX Diversity mode                             |             | None                                                                          |                    | RBS2-292 |
| - SSDT information                              |             | Not Present                                                                   | R99 and Rel-4 only | RBS2-293 |
| - Default DPCH Offset Value                     |             | Not Present                                                                   |                    | RBS2-294 |
| - MAC-hs reset indicator                        |             | Not Present                                                                   | Rel-5              | RBS2-295 |
| - Post-verification period                      |             | Not Present                                                                   | Rel-6              | RBS2-296 |
| Downlink information for per radio link list    |             |                                                                               |                    | RBS2-297 |
| - Downlink information for each radio link      |             |                                                                               |                    | RBS2-298 |
| - CHOICE mode                                   |             | FDD                                                                           |                    | RBS2-299 |
| - Primary CPICH info                            |             |                                                                               |                    | RBS2-300 |
| - Primary scrambling code                       |             | Reference to clause 6.1 "Default settings (FDD)"                              |                    | RBS2-301 |
| - PDSCH with SHO DCH info                       |             | Not Present                                                                   | R99 and Rel-4 only | RBS2-302 |
| - PDSCH code mapping                            |             | Not Present                                                                   | R99 and Rel-4 only | RBS2-303 |
| - Downlink DPCH info for each RL                |             |                                                                               |                    | RBS2-304 |
| - CHOICE mode                                   |             | FDD                                                                           |                    | RBS2-305 |
| - Primary CPICH usage for channel estimation    |             | Primary CPICH may be used                                                     |                    | RBS2-306 |
| - DPCH frame offset                             |             | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |                    | RBS2-307 |

| Information Element                     | Condition | Value/remark | Version            | Index    |
|-----------------------------------------|-----------|--------------|--------------------|----------|
| - Secondary CPICH info                  |           | Not Present  |                    | RBS2-308 |
| - DL channelisation code                |           |              |                    | RBS2-309 |
| - Secondary scrambling code             |           | Not Present  |                    | RBS2-310 |
| - Spreading factor                      |           | 128          |                    | RBS2-311 |
| - Code number                           |           | 96           |                    | RBS2-312 |
| - Scrambling code change                |           | No change    |                    | RBS2-313 |
| - TPC combination index                 |           | 0            |                    | RBS2-314 |
| - SSdT Cell Identity                    |           | Not Present  | R99 and Rel-4 only | RBS2-315 |
| - Closed loop timing adjustment mode    |           | Not Present  |                    | RBS2-316 |
| - SCCPCH information for FACH           |           | Not Present  | R99 and Rel-4 only | RBS2-317 |
| MBMS PL Service Restriction Information |           | Not Present  | Rel-6              | RBS2-318 |

| Condition | Explanation                                                                        |
|-----------|------------------------------------------------------------------------------------|
| A1        | This IE is needed for "UE supports CS RAB for Test Loop Mode2 RMC 12.2/12.2 (TM)"  |
| A2        | This IE is needed for "UE supports CS RAB for Test Loop Mode2 RMC 0 and 12.2 (TM)" |

## Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)

| Information Element                        | Value/remark                                                                                                                                                       | Version | Index    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                               |                                                                                                                                                                    |         | RBSH-001 |
| RRC transaction identifier                 | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBSH-002 |
| Integrity check info                       |                                                                                                                                                                    |         | RBSH-003 |
| - message authentication code              | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | RBSH-004 |
| - RRC message sequence number              | SS provides the value of this IE, from its internal counter.                                                                                                       |         | RBSH-005 |
| Integrity protection mode info             | Not Present                                                                                                                                                        |         | RBSH-006 |
| Ciphering mode info                        | Not Present                                                                                                                                                        |         | RBSH-007 |
| Activation time                            | Not Present                                                                                                                                                        |         | RBSH-008 |
| New U-RNTI                                 | Not Present                                                                                                                                                        |         | RBSH-009 |
| New C-RNTI                                 | Not Present                                                                                                                                                        |         | RBSH-010 |
| New H-RNTI                                 | '1010 1010 1010 1010'                                                                                                                                              | Rel-5   | RBSH-011 |
| New Primary E-RNTI                         | Not Present                                                                                                                                                        | Rel-6   | RBSH-012 |
| New Secondary E-RNTI                       | Not Present                                                                                                                                                        | Rel-6   | RBSH-013 |
| RRC State indicator                        | CELL_DCH                                                                                                                                                           |         | RBSH-014 |
| UTRAN DRX cycle length coefficient         | Not Present                                                                                                                                                        |         | RBSH-015 |
| CN information info                        | Not Present                                                                                                                                                        |         | RBSH-016 |
| URA identity                               | Not Present                                                                                                                                                        |         | RBSH-017 |
| CHOICE specification mode                  | Complete specification                                                                                                                                             | Rel-6   | RBSH-018 |
| Signalling RB information to setup         | Not Present                                                                                                                                                        |         | RBSH-019 |
| RAB information for setup list             |                                                                                                                                                                    |         | RBSH-020 |
| - RAB information for setup                |                                                                                                                                                                    |         | RBSH-021 |
| - RAB info                                 | (high-speed UM DTCH for PS domain)                                                                                                                                 |         | RBSH-022 |
| - RAB identity                             | 0000 0110B                                                                                                                                                         |         | RBSH-023 |
|                                            | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.                                                                   |         |          |
| - CN domain identity                       | PS domain                                                                                                                                                          |         | RBSH-024 |
| - NAS Synchronization Indicator            | Not Present                                                                                                                                                        |         | RBSH-025 |
| - Re-establishment timer                   | UseT315                                                                                                                                                            |         | RBSH-026 |
| - RB information to setup                  |                                                                                                                                                                    |         | RBSH-027 |
| - RB identity                              | 25                                                                                                                                                                 |         | RBSH-028 |
| - PDCP info                                | Not Present                                                                                                                                                        |         | RBSH-029 |
| - CHOICE RLC info type                     | RLC info                                                                                                                                                           |         | RBSH-030 |
| - CHOICE Uplink RLC mode                   | Not Present                                                                                                                                                        |         | RBSH-031 |
| - CHOICE Downlink RLC mode                 | UM RLC                                                                                                                                                             |         | RBSH-032 |
| - DL UM RLC LI size                        | Selected with DL UM RLC data size                                                                                                                                  | Rel-5   | RBSH-033 |
| - One sided RLC re-establishment           | FALSE                                                                                                                                                              | Rel-5   | RBSH-034 |
| - RB mapping info                          |                                                                                                                                                                    |         | RBSH-035 |
| - Information for each multiplexing option | 1 RBMuxOptions                                                                                                                                                     |         | RBSH-036 |
| - RLC logical channel mapping indicator    | Not Present                                                                                                                                                        |         | RBSH-037 |

| Information Element                                               | Value/remark                                                                      | Version | Index    |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|----------|
| - Downlink RLC logical channel info                               | 1                                                                                 | Rel-7   | RBSH-038 |
| - Number of downlink RLC logical channels                         | HS-DSCH                                                                           |         | RBSH-039 |
| - Downlink transport channel type                                 | Not Present                                                                       |         | RBSH-040 |
| - DL DCH Transport channel identity                               | Not Present                                                                       |         | RBSH-041 |
| - DL DSCH Transport channel identity                              | MAC-hs                                                                            |         | RBSH-042 |
| - CHOICE DL MAC header type                                       | 0                                                                                 |         | RBSH-043 |
| - DL HS-DSCH MAC-d flow identity                                  | Not Present                                                                       |         | RBSH-044 |
| - Logical channel identity                                        | Not Present                                                                       | Rel-6   | RBSH-045 |
| RB information to reconfigure list                                | Not Present                                                                       |         | RBSH-046 |
| RB information to be affected list                                | Not Present                                                                       |         | RBSH-047 |
| Downlink counter synchronization info                             | Not Present                                                                       | Rel-5   | RBSH-048 |
| PDCP ROHC target mode                                             | Not Present                                                                       |         | RBSH-049 |
| UL Transport channel information for all transport channels       |                                                                                   |         | RBSH-050 |
| - PRACH TFCS                                                      | Not Present                                                                       |         | RBSH-051 |
| - CHOICE mode                                                     | FDD                                                                               |         | RBSH-052 |
| - TFC subset                                                      | Not Present                                                                       |         | RBSH-053 |
| - UL DCH TFCS                                                     |                                                                                   |         | RBSH-054 |
| - CHOICE TFCI signalling                                          | Normal                                                                            |         | RBSH-055 |
| - TFCI Field 1 information                                        |                                                                                   |         | RBSH-056 |
| - CHOICE TFCS representation                                      | Complete reconfiguration                                                          |         | RBSH-057 |
| - TFCS complete reconfigure information                           |                                                                                   |         | RBSH-058 |
| - CHOICE CTFC Size                                                | 2 bit CTFC                                                                        |         | RBSH-059 |
| - CTFC information                                                | 4 TFCS                                                                            |         | RBSH-060 |
| - CTFC                                                            | Reference to clause TS 34.121 clause C.2.1<br>Parameter Set                       |         | RBSH-061 |
| - Power offset information                                        |                                                                                   |         | RBSH-062 |
| - CHOICE Gain Factors                                             | Computed Gain Factors(The last TFC is set to<br>Signalled Gain Factors)           |         | RBSH-063 |
| - Gain factor $\beta_c$                                           | 8<br>(Not Present if the CHOICE Gain Factors is set to<br>Computed Gain Factors)  |         | RBSH-064 |
| - Gain factor $\beta_d$                                           | 15<br>(Not Present if the CHOICE Gain Factors is set to<br>Computed Gain Factors) |         | RBSH-065 |
| - Reference TFC ID                                                | 0                                                                                 |         | RBSH-066 |
| - CHOICE mode                                                     | FDD                                                                               |         | RBSH-067 |
| - Power offset P <sub>p-m</sub>                                   | Not Present                                                                       |         | RBSH-068 |
| Deleted UL TrCH information list                                  | Not Present                                                                       |         | RBSH-069 |
| Added or Reconfigured TrCH information list                       | Not Present                                                                       |         | RBSH-070 |
| CHOICE mode                                                       | Not Present                                                                       |         | RBSH-071 |
| DL Transport channel information common for all transport channel |                                                                                   |         | RBSH-072 |
| - SCCPCH TFCS                                                     | Not Present                                                                       |         | RBSH-073 |
| - CHOICE mode                                                     | FDD                                                                               |         | RBSH-074 |
| - CHOICE DL parameters                                            | Explicit                                                                          |         | RBSH-075 |
| - DL DCH TFCS                                                     |                                                                                   |         | RBSH-076 |
| - CHOICE TFCI Signalling                                          | Normal                                                                            |         | RBSH-077 |
| - TFCI Field 1 Information                                        |                                                                                   |         | RBSH-078 |
| - CHOICE TFCS representation                                      | Complete reconfiguration                                                          |         | RBSH-079 |
| - TFCS complete reconfigure                                       |                                                                                   |         | RBSH-080 |
| - CHOICE CTFC Size                                                | 2 bit CTFC                                                                        |         | RBSH-081 |
| - CTFC information                                                | 4 TFCS                                                                            |         | RBSH-082 |
| - CTFC                                                            | Reference to clause TS 34.121 clause C.3.1<br>Parameter Set                       |         | RBSH-083 |
| - Power offset information                                        | Not Present                                                                       |         | RBSH-084 |
| Deleted DL TrCH information                                       | Not Present                                                                       |         | RBSH-085 |
| Added or Reconfigured DL TrCH information list                    | 1 TrCHs added                                                                     |         | RBSH-086 |
| - Added or Reconfigured DL TrCH information                       | (HS-DSCH for DTCH)                                                                |         | RBSH-087 |
| - Downlink transport channel type                                 | HS-DSCH                                                                           | Rel-5   | RBSH-088 |
| - DL Transport channel identity                                   | Not Present                                                                       |         | RBSH-089 |
| - CHOICE DL parameters                                            | HS-DSCH                                                                           |         | RBSH-090 |
| - HARQ Info                                                       |                                                                                   | Rel-5   | RBSH-091 |
| - Number of Processes                                             | Reference to TS34.121 [2] Annex C Fixed<br>Reference Channels                     |         | RBSH-092 |
| - CHOICE Memory Partitioning                                      | Explicit                                                                          |         | RBSH-093 |
| - Memory size                                                     | Reference to TS34.121 [2] Annex C Fixed                                           |         | RBSH-094 |

| Information Element                       | Value/remark                                                  | Version            | Index    |
|-------------------------------------------|---------------------------------------------------------------|--------------------|----------|
| - Process Memory Size                     | Reference Channels parameter "Number of HARQ Processes".      |                    | RBSH-095 |
| - Additional memory sizes for MIMO        | Reference to TS34.121 [2] Annex C Fixed                       |                    |          |
| - CHOICE DL MAC header type               | Reference Channels parameter "Number of SML's per HARQ Proc." |                    |          |
| - Added or reconfigured MAC-d flow        | Not Present                                                   | Rel-7              | RBSH-096 |
| - MAC-hs queue to add or reconfigure list | MAC-hs                                                        | Rel-7              | RBSH-097 |
| - MAC-hs queue Id                         | (one queue)                                                   | Rel-5              | RBSH-098 |
| - MAC-d Flow Identity                     | 0                                                             |                    | RBSH-099 |
| - T1                                      | 0                                                             |                    | RBSH-100 |
| - MAC-hs window size                      | 50                                                            |                    | RBSH-101 |
| - MAC-d PDU size Info                     | 16                                                            |                    | RBSH-102 |
| - MAC-d PDU size                          | Reference to TS34.121 [2] Annex C Fixed                       |                    | RBSH-103 |
| - MAC-d PDU size index                    | Reference Channels                                            |                    | RBSH-104 |
| - MAC-hs queue to delete list             | 0                                                             |                    | RBSH-105 |
| - DCH quality target                      | Not present                                                   |                    | RBSH-106 |
| Frequency info                            | Not present                                                   |                    | RBSH-107 |
| Multi-frequency Info                      | Not Present                                                   |                    | RBSH-108 |
| DTX-DRX timing information                | Not present                                                   | Rel-7              | RBSH-109 |
| DRX Information                           | Not present                                                   | Rel-7              | RBSH-110 |
| HS-SCCH less Information                  | Not present                                                   | Rel-7              | RBSH-111 |
| MIMO parameters                           | Not present                                                   | Rel-7              | RBSH-112 |
| Maximum allowed UL TX power               | 33dBm                                                         | Rel-7              | RBSH-113 |
| CHOICE channel requirement                | Uplink DPCH info                                              | Rel-5 and earlier  | RBSH-114 |
| Uplink DPCH info                          |                                                               | Rel-6              | RBSH-115 |
| - Uplink DPCH power control info          |                                                               |                    | RBSH-116 |
| - CHOICE mode                             | FDD                                                           |                    | RBSH-117 |
| - DPCH power offset                       | -40 (-80dB) IE value will have no effect on the UE            |                    | RBSH-118 |
| - PC Preamble                             | UL power when closed loop power control is active             |                    | RBSH-119 |
| - SRB delay                               | 1 frame                                                       |                    | RBSH-120 |
| - Power Control Algorithm                 | 7 frames                                                      |                    | RBSH-121 |
| - TPC step size                           | Algorithm1                                                    |                    | RBSH-122 |
| - $\Delta_{ACK}$                          | 0 (1dB)                                                       |                    | RBSH-123 |
| - $\Delta_{NACK}$                         | 3                                                             | Rel-5              | RBSH-124 |
| - Ack-Nack repetition factor              | 3                                                             | Rel-5              | RBSH-125 |
| - CHOICE mode                             | 1                                                             | Rel-5              | RBSH-126 |
| - Scrambling code type                    | FDD                                                           |                    | RBSH-127 |
| - Scrambling code number                  | Long                                                          |                    | RBSH-128 |
| - Number of DPDCH                         | 0 (0 to 16777215)                                             |                    | RBSH-129 |
| - spreading factor                        | Not Present (1)                                               |                    | RBSH-130 |
| - TFCI existence                          | 64                                                            |                    | RBSH-131 |
| - Number of FBI bit                       | TRUE                                                          |                    | RBSH-132 |
| - Puncturing Limit                        | Not Present(0)                                                |                    | RBSH-133 |
| CHOICE Mode                               | 1                                                             |                    | RBSH-134 |
| - Downlink PDSCH information              | FDD                                                           | R99 and Rel-4 only | RBSH-135 |
| E-DCH Info                                | Not Present                                                   | R99 and Rel-4 only | RBSH-136 |
| Downlink HS-PDSCH Information             |                                                               | Rel-6              | RBSH-137 |
| - HS-SCCH Info                            |                                                               |                    | RBSH-138 |
| - CHOICE mode                             | FDD                                                           |                    | RBSH-139 |
| - DL Scrambling Code                      |                                                               |                    | RBSH-140 |
| - HS-SCCH Channelisation Code Information |                                                               |                    | RBSH-141 |
| - HS-SCCH Channelisation Code             | 2                                                             |                    | RBSH-142 |
| - HS-SCCH Channelisation Code             | 3                                                             |                    | RBSH-143 |
| - HS-SCCH Channelisation Code             | 6                                                             |                    | RBSH-144 |
| - HS-SCCH Channelisation Code             | 7                                                             |                    | RBSH-145 |
| - Measurement Feedback Info               |                                                               |                    | RBSH-146 |
| - CHOICE mode                             | FDD                                                           |                    | RBSH-147 |
| - POHsdscch                               | 6 dB                                                          | Rel-5              | RBSH-148 |
| - CQI Feedback cycle, k                   | 2 ms                                                          | Rel-5              | RBSH-149 |
| - CQI repetition factor                   | 1                                                             | Rel-5              | RBSH-150 |
|                                           |                                                               |                    | RBSH-151 |
|                                           |                                                               |                    | RBSH-152 |

| Information Element                             | Value/remark                                                                  | Version                                           | Index    |
|-------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------|----------|
| - $\Delta_{CQI}$                                | 5 (corresponds to 0dB in relative power offset)                               | Rel-5                                             | RBSH-153 |
| - CHOICE mode                                   | FDD                                                                           | Rel-7                                             | RBSH-154 |
| - Downlink 64QAM configured                     | Not Present                                                                   |                                                   | RBSH-155 |
| Downlink information common for all radio links | Not Present                                                                   |                                                   | RBSH-156 |
| Downlink information per radio link list        |                                                                               |                                                   | RBSH-157 |
| - Downlink information for each radio link      |                                                                               | R99 and Rel-4 only<br>R99 and Rel-4 only<br>Rel-5 | RBSH-158 |
| - CHOICE mode                                   | FDD                                                                           |                                                   | RBSH-159 |
| - Primary CPICH info                            |                                                                               |                                                   | RBSH-160 |
| - Primary scrambling code                       | Reference to clause 6.1 "Default settings (FDD)"                              |                                                   | RBSH-161 |
| - PDSCH with SHO DCH info                       | Not Present                                                                   |                                                   | RBSH-162 |
| - PDSCH code mapping                            | Not Present                                                                   |                                                   | RBSH-163 |
| - Serving HS-DSCH radio link indicator          | TRUE                                                                          |                                                   | RBSH-164 |
| - Downlink DPCH info for each RL                |                                                                               |                                                   | RBSH-165 |
| - CHOICE mode                                   | FDD                                                                           |                                                   | RBSH-166 |
| - Primary CPICH usage for channel estimation    | Primary CPICH may be used                                                     |                                                   | RBSH-167 |
| - DPCH frame offset                             | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |                                                   | RBSH-168 |
| - Secondary CPICH info                          | Not Present                                                                   |                                                   | RBSH-169 |
| - DL channelisation code                        |                                                                               |                                                   | RBSH-170 |
| - Secondary scrambling code                     | Not present                                                                   |                                                   | RBSH-171 |
| - Spreading factor                              | 128                                                                           | R99 and Rel-4 only                                | RBSH-172 |
| - Code number                                   | 96                                                                            |                                                   | RBSH-173 |
| - Scrambling code change                        | No change                                                                     |                                                   | RBSH-174 |
| - TPC combination index                         | 0                                                                             |                                                   | RBSH-175 |
| - SSDT Cell Identity                            | Not Present                                                                   |                                                   | RBSH-176 |
| - Closed loop timing adjustment mode            | Not Present                                                                   |                                                   | RBSH-177 |
| - SCCPCH information for FACH                   | Not Present                                                                   |                                                   | RBSH-178 |
| MBMS PL Service Restriction Information         | Not Present                                                                   | Rel-6                                             | RBSH-179 |

## Contents of RADIO BEARER SETUP message: BTFD RMC for Test Loop Mode 2

| Information Element                | Value/remark                                                        | Version                                       | Index    |
|------------------------------------|---------------------------------------------------------------------|-----------------------------------------------|----------|
| Message Type                       | Arbitrarily selects an integer between 0 and 3                      |                                               | RBSB-001 |
| RRC transaction identifier         |                                                                     |                                               | RBSB-002 |
| Integrity check info               |                                                                     |                                               | RBSB-003 |
| - message authentication code      |                                                                     |                                               | RBSB-004 |
| - RRC message sequence number      |                                                                     |                                               | RBSB-005 |
| Integrity protection mode info     |                                                                     |                                               | RBSB-006 |
| Ciphering mode info                |                                                                     |                                               | RBSB-007 |
|                                    | For correct operation of test loop mode 2 this IE shall be omitted. |                                               |          |
| Activation time                    | (256+CFN-(CFN MOD 8 + 8))MOD 256                                    | R99 and Rel-4 only<br>Rel-5<br>Rel-6<br>Rel-6 | RBSB-008 |
| New U-RNTI                         | Not Present                                                         |                                               | RBSB-009 |
| New C-RNTI                         | Not Present                                                         |                                               | RBSB-010 |
| New DSCH-RNTI                      | Not Present                                                         |                                               | RBSB-011 |
| New H-RNTI                         | Not Present                                                         |                                               | RBSB-012 |
| New Primary E-RNTI                 | Not Present                                                         |                                               | RBSB-013 |
| New Secondary E-RNTI               | Not Present                                                         |                                               | RBSB-014 |
| RRC State indicator                | CELL_DCH                                                            |                                               | RBSB-015 |
| UTRAN DRX cycle length coefficient | Not Present                                                         |                                               | RBSB-016 |
| CN information info                | Not Present                                                         |                                               | RBSB-017 |
| URA identity                       | Not Present                                                         |                                               | RBSB-018 |
| CHOICE <i>specification mode</i>   | Complete specification                                              | Rel-5                                         | RBSB-019 |
| - RAB information for setup        |                                                                     |                                               | RBSB-020 |
| - RAB info                         |                                                                     |                                               | RBSB-021 |
| - RAB identity                     | 0000 0001B                                                          |                                               | RBSB-022 |

| Information Element                                         | Value/remark                                                                                     | Version | Index    |
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|                                                             | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |          |
| - CN domain identity                                        | CS domain                                                                                        |         | RBSB-023 |
| - NAS Synchronization Indicator                             | Not Present                                                                                      |         | RBSB-024 |
| - Re-establishment timer                                    | UseT314                                                                                          |         | RBSB-025 |
| - RB information to setup                                   |                                                                                                  |         | RBSB-026 |
| - RB identity                                               | 10                                                                                               |         | RBSB-027 |
| - PDCP info                                                 | Not Present                                                                                      |         | RBSB-028 |
| - CHOICE RLC info type                                      | RLC info                                                                                         |         | RBSB-029 |
| - CHOICE Uplink RLC mode                                    | TM RLC                                                                                           |         | RBSB-030 |
| - Transmission RLC discard                                  | Not Present                                                                                      |         | RBSB-031 |
| - Segmentation indication                                   | FALSE                                                                                            |         | RBSB-032 |
| - CHOICE Downlink RLC mode                                  | TM RLC                                                                                           |         | RBSB-033 |
| - Segmentation indication                                   | FALSE                                                                                            |         | RBSB-034 |
| - RB mapping info                                           |                                                                                                  |         | RBSB-035 |
| - Information for each multiplexing option                  |                                                                                                  |         | RBSB-036 |
| - RLC logical channel mapping indicator                     | Not Present                                                                                      |         | RBSB-037 |
| - Number of uplink RLC logical channels                     | 1                                                                                                |         | RBSB-038 |
| - Uplink transport channel type                             | DCH                                                                                              |         | RBSB-039 |
| - UL Transport channel identity                             | 1                                                                                                |         | RBSB-040 |
| - Logical channel identity                                  | Not Present                                                                                      |         | RBSB-041 |
| - CHOICE RLC size list                                      | Configured                                                                                       |         | RBSB-042 |
| - MAC logical channel priority                              | 7                                                                                                |         | RBSB-043 |
| - Downlink RLC logical channel info                         |                                                                                                  |         | RBSB-044 |
| - Number of downlink RLC logical channels                   | 1                                                                                                |         | RBSB-045 |
| - Downlink transport channel type                           | DCH                                                                                              |         | RBSB-046 |
| - DL DCH Transport channel identity                         | 6                                                                                                |         | RBSB-047 |
| - DL DSCH Transport channel identity                        | Not Present                                                                                      |         | RBSB-048 |
| - Logical channel identity                                  | Not Present                                                                                      |         | RBSB-049 |
| RB information to reconfigure list                          | Not Present                                                                                      | Rel-6   | RBSB-050 |
| RB information to be affected                               | Not Present                                                                                      |         | RBSB-051 |
| Downlink counter synchronization info                       | Not Present                                                                                      |         | RBSB-052 |
|                                                             | RMC for BTFD                                                                                     |         | RBSB-053 |
| UL Transport channel information for all transport channels |                                                                                                  |         | RBSB-054 |
| - PRACH TFCS                                                | Not Present                                                                                      |         | RBSB-055 |
| - CHOICE mode                                               | FDD                                                                                              |         | RBSB-056 |
| - TFC subset                                                | Not Present                                                                                      |         | RBSB-057 |
| - UL DCH TFCS                                               |                                                                                                  |         | RBSB-058 |
| - CHOICE TFCI signalling                                    | Normal                                                                                           |         | RBSB-059 |
| - TFCI Field 1 information                                  |                                                                                                  |         | RBSB-060 |
| - CHOICE TFCS representation                                | Complete reconfiguration                                                                         |         | RBSB-061 |
| - TFCS complete reconfigure information                     |                                                                                                  |         | RBSB-062 |
| - CHOICE CTFC Size                                          | ctfc6Bit                                                                                         |         | RBSB-063 |
| - ctfc6Bit                                                  | 22                                                                                               |         | RBSB-064 |
| - ctfc6                                                     | 0                                                                                                |         | RBSB-065 |
| -powerOffsetInformation(OP)                                 |                                                                                                  |         | RBSB-066 |
| -gainFactorInformation                                      | ComputedGainFactors                                                                              |         | RBSB-067 |
| - Reference TFC ID                                          | 0                                                                                                |         | RBSB-068 |
| - ctfc6                                                     | 11                                                                                               |         | RBSB-069 |
| -powerOffsetInformation(OP)                                 |                                                                                                  |         | RBSB-070 |
| -gainFactorInformation                                      | ComputedGainFactors                                                                              |         | RBSB-071 |
| - Reference TFC ID                                          | 0                                                                                                |         | RBSB-072 |
| - ctfc6                                                     | 1                                                                                                |         | RBSB-073 |
| -powerOffsetInformation(OP)                                 |                                                                                                  |         | RBSB-074 |
| -gainFactorInformation                                      | ComputedGainFactors                                                                              |         | RBSB-075 |
| - Reference TFC ID                                          | 0                                                                                                |         | RBSB-076 |
| - ctfc6                                                     | 12                                                                                               |         | RBSB-077 |
| -powerOffsetInformation(OP)                                 |                                                                                                  |         | RBSB-078 |
| -gainFactorInformation                                      | SignalledGainFactors                                                                             |         | RBSB-079 |
| -modeSpecificInfo                                           | Fdd                                                                                              |         | RBSB-080 |
| -fdd                                                        |                                                                                                  |         | RBSB-081 |
| - Gain factor $\beta_c$                                     | 8                                                                                                |         | RBSB-082 |
| - Gain factor $\beta_d$                                     | 15                                                                                               |         | RBSB-083 |
| - Reference TFC ID                                          | 0                                                                                                |         | RBSB-084 |
| - ctfc6                                                     | 2                                                                                                |         | RBSB-085 |
| -powerOffsetInformation(OP)                                 |                                                                                                  |         | RBSB-086 |

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| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-087 |
| - Reference TFC ID          | 0                    |         | RBSB-088 |
| - ctfc6                     | 13                   |         | RBSB-089 |
| -powerOffsetInformation(OP) |                      |         | RBSB-090 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-091 |
| - Reference TFC ID          | 0                    |         | RBSB-092 |
| - ctfc6                     | 3                    |         | RBSB-093 |
| -powerOffsetInformation(OP) |                      |         | RBSB-094 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-095 |
| - Reference TFC ID          | 0                    |         | RBSB-096 |
| - ctfc6                     | 14                   |         | RBSB-097 |
| -powerOffsetInformation(OP) |                      |         | RBSB-098 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-099 |
| - Reference TFC ID          | 0                    |         | RBSB-100 |
| - ctfc6                     | 4                    |         | RBSB-101 |
| -powerOffsetInformation(OP) |                      |         | RBSB-102 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-103 |
| - Reference TFC ID          | 0                    |         | RBSB-104 |
| - ctfc6                     | 15                   |         | RBSB-105 |
| -powerOffsetInformation(OP) |                      |         | RBSB-106 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-107 |
| - Reference TFC ID          | 0                    |         | RBSB-108 |
| - ctfc6                     | 5                    |         | RBSB-109 |
| -powerOffsetInformation(OP) |                      |         | RBSB-110 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-111 |
| - Reference TFC ID          | 0                    |         | RBSB-112 |
| - ctfc6                     | 16                   |         | RBSB-113 |
| -powerOffsetInformation(OP) |                      |         | RBSB-114 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-115 |
| - Reference TFC ID          | 0                    |         | RBSB-116 |
| - ctfc6                     | 6                    |         | RBSB-117 |
| -powerOffsetInformation(OP) |                      |         | RBSB-118 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-119 |
| - Reference TFC ID          | 1                    |         | RBSB-120 |
| - ctfc6                     | 17                   |         | RBSB-121 |
| -powerOffsetInformation(OP) |                      |         | RBSB-122 |
| -gainFactorInformation      | SignalledGainFactors |         | RBSB-123 |
| -modeSpecificInfo           | Fdd                  |         | RBSB-124 |
| - fdd                       |                      |         | RBSB-125 |
| - Gain factor $\beta_c$     | 11                   |         | RBSB-126 |
| - Gain factor $\beta_d$     | 15                   |         | RBSB-127 |
| - Reference TFC ID          | 1                    |         | RBSB-128 |
| - ctfc6                     | 7                    |         | RBSB-129 |
| -powerOffsetInformation(OP) |                      |         | RBSB-130 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-131 |
| - Reference TFC ID          | 1                    |         | RBSB-132 |
| - ctfc6                     | 18                   |         | RBSB-133 |
| -powerOffsetInformation(OP) |                      |         | RBSB-134 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-135 |
| - Reference TFC ID          | 1                    |         | RBSB-136 |
| - ctfc6                     | 8                    |         | RBSB-137 |
| -powerOffsetInformation(OP) |                      |         | RBSB-138 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-139 |
| - Reference TFC ID          | 1                    |         | RBSB-140 |
| - ctfc6                     | 19                   |         | RBSB-141 |
| -powerOffsetInformation(OP) |                      |         | RBSB-142 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-143 |
| - Reference TFC ID          | 1                    |         | RBSB-144 |
| - ctfc6                     | 9                    |         | RBSB-145 |
| -powerOffsetInformation(OP) |                      |         | RBSB-146 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-147 |
| - Reference TFC ID          | 1                    |         | RBSB-148 |
| - ctfc6                     | 20                   |         | RBSB-149 |
| -powerOffsetInformation(OP) |                      |         | RBSB-150 |
| -gainFactorInformation      | ComputedGainFactors  |         | RBSB-151 |
| - Reference TFC ID          | 1                    |         | RBSB-152 |
| - ctfc6                     | 10                   |         | RBSB-153 |



| Information Element                                               | Value/remark                 | Version | Index    |
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| -powerOffsetInformation(OP)                                       |                              |         | RBSB-154 |
| -gainFactorInformation                                            | ComputedGainFactors          |         | RBSB-155 |
| - Reference TFC ID                                                | 1                            |         | RBSB-156 |
| - ctfc6                                                           | 21                           |         | RBSB-157 |
| -powerOffsetInformation(OP)                                       |                              |         | RBSB-158 |
| -gainFactorInformation                                            | ComputedGainFactors          |         | RBSB-159 |
| - Reference TFC ID                                                | 1                            |         | RBSB-160 |
| Added or Reconfigured UL TrCH information list                    | 1                            |         | RBSB-161 |
| - Added or Reconfigured UL TrCH information                       |                              |         | RBSB-162 |
| - Uplink transport channel type                                   | DCH                          |         | RBSB-163 |
| - UL Transport channel identity                                   | 1                            |         | RBSB-164 |
| - TFS                                                             |                              |         | RBSB-165 |
| - CHOICE Transport channel type                                   | Dedicated transport channels |         | RBSB-166 |
| -DedicatedDynamicTF-Info                                          |                              |         | RBSB-167 |
| RLC size                                                          | 256                          |         | RBSB-168 |
| -numberOfTbSizeList                                               |                              |         | RBSB-169 |
| -NumberOfTransportBlocks                                          | Zero                         |         | RBSB-170 |
| -NumberOfTransportBlocks                                          | One                          |         | RBSB-171 |
| - Choice Logical channel List                                     | ALL                          |         | RBSB-172 |
| RLC size                                                          | 216                          |         | RBSB-173 |
| -numberOfTbSizeList                                               |                              |         | RBSB-174 |
| -NumberOfTransportBlocks                                          | One                          |         | RBSB-175 |
| - Choice Logical channel List                                     | ALL                          |         | RBSB-176 |
| RLC size                                                          | 171                          |         | RBSB-177 |
| -numberOfTbSizeList                                               |                              |         | RBSB-178 |
| -NumberOfTransportBlocks                                          | One                          |         | RBSB-179 |
| - Choice Logical channel List                                     | ALL                          |         | RBSB-180 |
| RLC size                                                          | 160                          |         | RBSB-181 |
| -numberOfTbSizeList                                               |                              |         | RBSB-182 |
| -NumberOfTransportBlocks                                          | One                          |         | RBSB-183 |
| - Choice Logical channel List                                     | ALL                          |         | RBSB-184 |
| RLC size                                                          | 146                          |         | RBSB-185 |
| -numberOfTbSizeList                                               |                              |         | RBSB-186 |
| -NumberOfTransportBlocks                                          | One                          |         | RBSB-187 |
| - Choice Logical channel List                                     | ALL                          |         | RBSB-188 |
| RLC size                                                          | 130                          |         | RBSB-189 |
| -numberOfTbSizeList                                               |                              |         | RBSB-190 |
| -NumberOfTransportBlocks                                          | One                          |         | RBSB-191 |
| - Choice Logical channel List                                     | ALL                          |         | RBSB-192 |
| RLC size                                                          | 115                          |         | RBSB-193 |
| -numberOfTbSizeList                                               |                              |         | RBSB-194 |
| -NumberOfTransportBlocks                                          | One                          |         | RBSB-195 |
| - Choice Logical channel List                                     | ALL                          |         | RBSB-196 |
| RLC size                                                          | 107                          |         | RBSB-197 |
| -numberOfTbSizeList                                               |                              |         | RBSB-198 |
| -NumberOfTransportBlocks                                          | One                          |         | RBSB-199 |
| - Choice Logical channel List                                     | ALL                          |         | RBSB-200 |
| RLC size                                                          | 51                           |         | RBSB-201 |
| -numberOfTbSizeList                                               |                              |         | RBSB-202 |
| -NumberOfTransportBlocks                                          | One                          |         | RBSB-203 |
| - Choice Logical channel List                                     | ALL                          |         | RBSB-204 |
| RLC size                                                          | 12                           |         | RBSB-205 |
| -numberOfTbSizeList                                               |                              |         | RBSB-206 |
| -NumberOfTransportBlocks                                          | One                          |         | RBSB-207 |
| - Choice Logical channel List                                     | ALL                          |         | RBSB-208 |
| -Semistatic Transport Format Information                          |                              |         | RBSB-209 |
| -Transmission Time interval                                       | 20 ms                        |         | RBSB-210 |
| -channelCodingType                                                | Convolutional                |         | RBSB-211 |
| -convolutional                                                    | 1/3                          |         | RBSB-212 |
| - Rate matching attribute                                         | 256                          |         | RBSB-213 |
| - CRC size                                                        | 0                            |         | RBSB-214 |
| DL Transport channel information common for all transport channel |                              |         | RBSB-215 |
| - SCCPCH TFCS                                                     | Not Present                  |         | RBSB-216 |
| - CHOICE mode                                                     | FDD                          |         | RBSB-217 |
| - CHOICE DL parameters                                            | Explicit                     |         | RBSB-218 |
| - DL DCH TFCS                                                     |                              |         | RBSB-219 |

| Information Element                            | Value/remark                 | Version | Index    |
|------------------------------------------------|------------------------------|---------|----------|
| - CHOICE TFCI signalling                       | Normal                       |         | RBSB-220 |
| - TFCI Field 1 information                     |                              |         | RBSB-221 |
| - CHOICE TFCS representation                   | Complete reconfiguration     |         | RBSB-222 |
| - TFCS complete reconfigure information        |                              |         | RBSB-223 |
| - CHOICE CTFC Size                             | Ctfc6Bit                     |         | RBSB-224 |
| - ctfc6Bit                                     | 18                           |         | RBSB-225 |
| - ctfc6                                        | 9                            |         | RBSB-226 |
| - ctfc6                                        | 0                            |         | RBSB-227 |
| - ctfc6                                        | 10                           |         | RBSB-228 |
| - ctfc6                                        | 1                            |         | RBSB-229 |
| - ctfc6                                        | 11                           |         | RBSB-230 |
| - ctfc6                                        | 2                            |         | RBSB-231 |
| - ctfc6                                        | 12                           |         | RBSB-232 |
| - ctfc6                                        | 3                            |         | RBSB-233 |
| - ctfc6                                        | 13                           |         | RBSB-234 |
| - ctfc6                                        | 4                            |         | RBSB-235 |
| - ctfc6                                        | 14                           |         | RBSB-236 |
| - ctfc6                                        | 5                            |         | RBSB-237 |
| - ctfc6                                        | 15                           |         | RBSB-238 |
| - ctfc6                                        | 6                            |         | RBSB-239 |
| - ctfc6                                        | 16                           |         | RBSB-240 |
| - ctfc6                                        | 7                            |         | RBSB-241 |
| - ctfc6                                        | 17                           |         | RBSB-242 |
| - ctfc6                                        | 8                            |         | RBSB-243 |
| Deleted DL TrCH information                    | Not Present                  |         | RBSB-244 |
| Added or Reconfigured DL TrCH information list | 1                            |         | RBSB-245 |
| - Added or Reconfigured DL TrCH information    |                              |         | RBSB-246 |
| - Downlink transport channel type              | DCH                          |         | RBSB-247 |
| - DL Transport channel identity                | 6                            |         | RBSB-248 |
| - CHOICE DL parameters                         | Explicit                     |         | RBSB-249 |
| - TFS                                          |                              |         | RBSB-250 |
| - CHOICE Transport channel type                | Dedicated transport channels |         | RBSB-251 |
| -DedicatedDynamicTF-Info                       |                              |         | RBSB-252 |
| RLC size                                       | 244                          |         | RBSB-253 |
| -numberOfTbSizeList                            |                              |         | RBSB-254 |
| -NumberOfTransportBlocks                       | One                          |         | RBSB-255 |
| - Choice Logical channel List                  | ALL                          |         | RBSB-256 |
| RLC size                                       | 204                          |         | RBSB-257 |
| -numberOfTbSizeList                            |                              |         | RBSB-258 |
| -NumberOfTransportBlocks                       | One                          |         | RBSB-259 |
| - Choice Logical channel List                  | ALL                          |         | RBSB-260 |
| RLC size                                       | 159                          |         | RBSB-261 |
| -numberOfTbSizeList                            |                              |         | RBSB-262 |
| -NumberOfTransportBlocks                       | One                          |         | RBSB-263 |
| - Choice Logical channel List                  | ALL                          |         | RBSB-264 |
| RLC size                                       | 148                          |         | RBSB-265 |
| -numberOfTbSizeList                            |                              |         | RBSB-266 |
| -NumberOfTransportBlocks                       | One                          |         | RBSB-267 |
| - Choice Logical channel List                  | ALL                          |         | RBSB-268 |
| RLC size                                       | 134                          |         | RBSB-269 |
| -numberOfTbSizeList                            |                              |         | RBSB-270 |
| -NumberOfTransportBlocks                       | One                          |         | RBSB-271 |
| - Choice Logical channel List                  | ALL                          |         | RBSB-272 |
| RLC size                                       | 118                          |         | RBSB-273 |
| -numberOfTbSizeList                            |                              |         | RBSB-274 |
| -NumberOfTransportBlocks                       | One                          |         | RBSB-275 |
| - Choice Logical channel List                  | ALL                          |         | RBSB-276 |
| RLC size                                       | 103                          |         | RBSB-277 |
| -numberOfTbSizeList                            |                              |         | RBSB-278 |
| -NumberOfTransportBlocks                       | One                          |         | RBSB-279 |
| - Choice Logical channel List                  | ALL                          |         | RBSB-280 |
| RLC size                                       | 95                           |         | RBSB-281 |
| -numberOfTbSizeList                            |                              |         | RBSB-282 |
| -NumberOfTransportBlocks                       | One                          |         | RBSB-283 |
| - Choice Logical channel List                  | ALL                          |         | RBSB-284 |
| RLC size                                       | 39                           |         | RBSB-285 |
| -numberOfTbSizeList                            |                              |         | RBSB-286 |

| Information Element                             | Value/remark                                                                                         | Version            | Index    |
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| -NumberOfTransportBlocks                        | One                                                                                                  |                    | RBSB-287 |
| - Choice Logical channel List                   | ALL                                                                                                  |                    | RBSB-288 |
| -Semistatic Transport Format Information        |                                                                                                      |                    | RBSB-289 |
| -Transmission Time interval                     | 20 ms                                                                                                |                    | RBSB-290 |
| -channelCodingType                              | Convolutional                                                                                        |                    | RBSB-291 |
| -convolutional                                  | 1/3                                                                                                  |                    | RBSB-292 |
| - Rate matching attribute                       | 256                                                                                                  |                    | RBSB-293 |
| - CRC size                                      | 12                                                                                                   |                    | RBSB-294 |
| - DCH quality target                            |                                                                                                      |                    | RBSB-295 |
| - BLER Quality value                            | -20 (-2.0)                                                                                           |                    | RBSB-296 |
| - Transparent mode signalling info              | Not Present                                                                                          |                    | RBSB-297 |
| Frequency info                                  | Not Present                                                                                          |                    | RBSB-298 |
| Multi-frequency Info                            | Not present                                                                                          | Rel-7              | RBSB-299 |
| DTX-DRX timing information                      | Not present                                                                                          | Rel-7              | RBSB-300 |
| DRX Information                                 | Not present                                                                                          | Rel-7              | RBSB-301 |
| HS-SCCH less Information                        | Not present                                                                                          | Rel-7              | RBSB-302 |
| MIMO parameters                                 | Not present                                                                                          | Rel-7              | RBSB-303 |
| Maximum allowed UL TX power                     | 33 dBm                                                                                               |                    | RBSB-304 |
| CHOICE channel requirement                      | Uplink DPCH info                                                                                     | Rel-5 and earlier  | RBSB-305 |
| Uplink DPCH info                                |                                                                                                      | Rel-6              | RBSB-306 |
| - Uplink DPCH power control info                |                                                                                                      |                    | RBSB-307 |
| - DPCCH power offset                            | -40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active |                    | RBSB-308 |
| - PC Preamble                                   | 1 frame                                                                                              |                    | RBSB-309 |
| - SRB delay                                     | 7 frames                                                                                             |                    | RBSB-310 |
| - Power Control Algorithm                       | Algorithm1                                                                                           |                    | RBSB-311 |
| - TPC step size                                 | 0 (1dB)                                                                                              |                    | RBSB-312 |
| - $\Delta_{ACK}$                                | Not Present                                                                                          | Rel-5              | RBSB-313 |
| - $\Delta_{NACK}$                               | Not Present                                                                                          | Rel-5              | RBSB-314 |
| - Ack-Nack repetition factor                    | Not Present                                                                                          | Rel-5              | RBSB-315 |
| - Scrambling code type                          | Long                                                                                                 |                    | RBSB-316 |
| - Scrambling code number                        | 0                                                                                                    |                    | RBSB-317 |
| - Number of DPDCH                               | 1                                                                                                    |                    | RBSB-318 |
| - spreading factor                              | 64                                                                                                   |                    | RBSB-319 |
| - TFCI existence                                | TRUE                                                                                                 |                    | RBSB-320 |
| - Number of FBI bit                             | Not Present(0)                                                                                       |                    | RBSB-321 |
| - Puncturing Limit                              | 1                                                                                                    |                    | RBSB-322 |
| CHOICE Mode                                     | FDD                                                                                                  | R99 and Rel-4 only | RBSB-323 |
| - Downlink PDSCH information                    | Not Present(0)                                                                                       | R99 and Rel-4 only | RBSB-324 |
| E-DCH Info                                      | Not Present                                                                                          | Rel-6              | RBSB-325 |
| Downlink HS-PDSCH Information                   | Not Present                                                                                          | Rel-5              | RBSB-326 |
| Downlink information common for all radio links |                                                                                                      |                    | RBSB-327 |
| - Downlink DPCH info common for all RL          | FDD                                                                                                  |                    | RBSB-328 |
| - Timing indicator                              | Maintain                                                                                             |                    | RBSB-329 |
| - CFN-targetSFN frame offset                    | Not Present                                                                                          |                    | RBSB-330 |
| - Downlink DPCH power control information       |                                                                                                      |                    | RBSB-331 |
| - DPC mode                                      | 0 (single)                                                                                           |                    | RBSB-332 |
| - CHOICE mode                                   | FDD                                                                                                  |                    | RBSB-333 |
| - Power offset $P_{Pilot-DPDCH}$                | 0                                                                                                    |                    | RBSB-334 |
| - DL rate matching restriction information      | Not Present                                                                                          |                    | RBSB-335 |
| - Spreading factor                              | 128                                                                                                  |                    | RBSB-336 |
| - Number of bits for Pilot bits(SF=128,256)     | 4                                                                                                    |                    | RBSB-337 |
| - Fixed or Flexible Position                    | Fixed                                                                                                |                    | RBSB-338 |
| - TFCI existence                                | FALSE                                                                                                |                    | RBSB-339 |
| - DPCH compressed mode info                     | Not Present                                                                                          |                    | RBSB-340 |
| - TX Diversity mode                             | None                                                                                                 |                    | RBSB-341 |
| - SSDT information                              | Not Present                                                                                          | R99 and Rel-4 only | RBSB-342 |
| - Default DPCH Offset Value                     | Not Present                                                                                          |                    | RBSB-343 |
| Downlink information for each radio link list   |                                                                                                      |                    | RBSB-344 |
| - Primary CPICH info                            |                                                                                                      |                    | RBSB-345 |

| Information Element                          | Value/remark                                     | Version            | Index    |
|----------------------------------------------|--------------------------------------------------|--------------------|----------|
| - Primary scrambling code                    | Reference to clause 6.1 "Default settings (FDD)" |                    | RBSB-346 |
| - PDSCH with SHO DCH info                    | Not Present                                      | R99 and Rel-4 only | RBSB-347 |
| - PDSCH code mapping                         | Not Present                                      | R99 and Rel-4 only | RBSB-348 |
| - Downlink DPCH info for each RL             | Primary CPICH may be used                        |                    | RBSB-349 |
| - Primary CPICH usage for channel estimation | Set to value Default DPCH Offset Value           |                    | RBSB-350 |
| - DPCH frame offset                          | (as currently stored in SS) mod 38 400           |                    | RBSB-351 |
| - Secondary CPICH info                       | Not Present                                      |                    | RBSB-352 |
| - DL channelisation code                     | Not Present                                      |                    | RBSB-353 |
| - Secondary scrambling code                  | Not Present                                      |                    | RBSB-354 |
| - Spreading factor                           | 128                                              |                    | RBSB-355 |
| - Code number                                | 96                                               |                    | RBSB-356 |
| - Scrambling code change                     | No change                                        |                    | RBSB-357 |
| - TPC combination index                      | 0                                                |                    | RBSB-358 |
| - SSDT Cell Identity                         | Not Present                                      | R99 and Rel-4 only | RBSB-359 |
| - Closed loop timing adjustment mode         | Not Present                                      |                    | RBSB-360 |
| - SCCPCH information for FACH                | Not Present                                      | R99 and Rel-4 only | RBSB-361 |
| MBMS PL Service Restriction Information      | Not Present                                      | Rel-6              | RBSB-362 |

Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA)

| Information Element                        | Condition  | Value/remark                                                                                                                                                       | Version            | Index    |
|--------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Message Type                               | A1, A2, A3 |                                                                                                                                                                    |                    | RBSE-001 |
| RRC transaction identifier                 |            | Arbitrarily selects an integer between 0 and 3                                                                                                                     |                    | RBSE-002 |
| Integrity check info                       |            |                                                                                                                                                                    |                    | RBSE-003 |
| - message authentication code              |            | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                    | RBSE-004 |
| - RRC message sequence number              |            | SS provides the value of this IE, from its internal counter.                                                                                                       |                    | RBSE-005 |
| Integrity protection mode info             |            | Not Present                                                                                                                                                        |                    | RBSE-006 |
| Ciphering mode info                        |            | Not Present                                                                                                                                                        |                    | RBSE-007 |
| Activation time                            | A1         | Not Present                                                                                                                                                        |                    | RBSE-008 |
| Activation time                            | A2, A3     | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$                                                                                                          |                    | RBSE-009 |
| New U-RNTI                                 | A1, A2, A3 | Not Present                                                                                                                                                        |                    | RBSE-010 |
| New C-RNTI                                 |            | Not Present                                                                                                                                                        |                    | RBSE-011 |
| New DSCH-RNTI                              |            | Not Present                                                                                                                                                        | R99 and Rel-4 only | RBSE-012 |
| New H-RNTI                                 |            | '1010 1010 1010 1010'                                                                                                                                              | Rel-5              | RBSE-013 |
| New Primary E-RNTI                         |            | '1010 1010 1010 1010'                                                                                                                                              | Rel-6              | RBSE-014 |
| New Secondary E-RNTI                       |            | Not Present                                                                                                                                                        | Rel-6              | RBSE-015 |
| RRC State indicator                        |            | CELL_DCH                                                                                                                                                           |                    | RBSE-016 |
| UTRAN DRX cycle length coefficient         |            | Not Present                                                                                                                                                        |                    | RBSE-017 |
| CN information info                        |            | Not Present                                                                                                                                                        |                    | RBSE-018 |
| URA identity                               |            | Not Present                                                                                                                                                        |                    | RBSE-019 |
| CHOICE specification mode                  |            | Complete specification                                                                                                                                             | Rel-6              | RBSE-020 |
| - Signalling RB information to setup       |            | Not Present                                                                                                                                                        |                    | RBSE-021 |
| - RAB information for setup list           |            |                                                                                                                                                                    |                    | RBSE-022 |
| - RAB information for setup                |            |                                                                                                                                                                    |                    | RBSE-023 |
| - RAB info                                 |            | (high-speed UM DTCH for PS domain)<br>0000 0110B                                                                                                                   |                    | RBSE-024 |
| - RAB identity                             |            | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.                                                                   |                    | RBSE-025 |
| - CN domain identity                       |            | PS domain                                                                                                                                                          |                    | RBSE-026 |
| - NAS Synchronization Indicator            |            | Not Present                                                                                                                                                        |                    | RBSE-027 |
| - Re-establishment timer                   |            | useT315                                                                                                                                                            |                    | RBSE-028 |
| - RB information to setup                  |            |                                                                                                                                                                    |                    | RBSE-029 |
| - RB identity                              |            | 25                                                                                                                                                                 |                    | RBSE-030 |
| - PDCP info                                |            | Not present                                                                                                                                                        |                    | RBSE-031 |
| - CHOICE RLC info type                     |            | RLC info                                                                                                                                                           |                    | RBSE-032 |
| - CHOICE Uplink RLC mode                   |            | UM RLC                                                                                                                                                             |                    | RBSE-033 |
| - Transmission RLC discard                 |            | Not present                                                                                                                                                        |                    | RBSE-034 |
| - CHOICE Downlink RLC mode                 |            | UM RLC                                                                                                                                                             |                    | RBSE-035 |
| - DL UM RLC LI size                        |            | Selected with DL UM RLC data size                                                                                                                                  | Rel-5              | RBSE-036 |
| - DL Reception Window Size                 |            | Not present                                                                                                                                                        | Rel-6              | RBSE-037 |
| - One sided RLC re-establishment           |            | FALSE                                                                                                                                                              |                    | RBSE-038 |
| - Alternative E-bit interpretation         |            | Not present                                                                                                                                                        | Rel-6              | RBSE-039 |
| - RB mapping info                          |            |                                                                                                                                                                    |                    | RBSE-040 |
| - Information for each multiplexing option |            | 1 RBMuxOptions                                                                                                                                                     |                    | RBSE-041 |
| - RLC logical channel mapping indicator    |            | Not Present                                                                                                                                                        |                    | RBSE-042 |
| - Number of uplink RLC logical channels    |            | 1                                                                                                                                                                  |                    | RBSE-043 |
| - Uplink transport channel type            |            | E-DCH                                                                                                                                                              |                    | RBSE-044 |
| - Logical channel identity                 |            | 7                                                                                                                                                                  |                    | RBSE-045 |
| - E-DCH MAC-d flow identity                |            | 2                                                                                                                                                                  |                    | RBSE-046 |
| - DDI                                      |            | 5                                                                                                                                                                  |                    | RBSE-047 |
| - RLC PDU size list                        |            | 1 RLC PDU size                                                                                                                                                     |                    | RBSE-048 |
| - RLC PDU size                             |            | 336 bits                                                                                                                                                           |                    | RBSE-049 |
| - Include in scheduling info               |            | TRUE                                                                                                                                                               |                    | RBSE-050 |
| - MAC logical channel priority             |            | 8                                                                                                                                                                  |                    | RBSE-051 |
| - Downlink RLC logical channel info        |            |                                                                                                                                                                    |                    | RBSE-052 |
| - Number of downlink RLC logical channels  |            | 1                                                                                                                                                                  |                    | RBSE-053 |
| - Downlink transport channel type          |            | HS-DSCH                                                                                                                                                            |                    | RBSE-054 |
| - DL DCH Transport channel identity        |            | Not Present                                                                                                                                                        |                    | RBSE-055 |

| Information Element                        | Condition | Value/remark                      | Version | Index    |
|--------------------------------------------|-----------|-----------------------------------|---------|----------|
| - DL DSCH Transport channel identity       |           | Not Present                       | Rel-7   | RBSE-056 |
| - CHOICE DL MAC header type                |           | MAC-hs                            |         | RBSE-057 |
| - DL HS-DSCH MAC-d flow identity           |           | 0                                 |         | RBSE-058 |
| - Logical channel identity                 |           | Not Present                       |         | RBSE-059 |
| RB information to reconfigure list         |           | Not Present                       | Rel-6   | RBSE-060 |
| RB information to be affected              | A1        | Not Present                       |         | RBSE-061 |
| RB information to be affected              | A2, A3    |                                   |         | RBSE-062 |
| - RB identity                              |           | 1 (UM DCCH for RRC)               |         | RBSE-063 |
| - RB mapping info                          |           |                                   |         | RBSE-064 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBSE-065 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBSE-066 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBSE-067 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBSE-068 |
| - Logical channel identity                 |           | 1                                 |         | RBSE-069 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBSE-070 |
| - DDI                                      |           | 1                                 |         | RBSE-071 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBSE-072 |
| - RLC PDU size                             |           | 96 bits                           |         | RBSE-073 |
| - Include in scheduling info               |           | FALSE                             |         | RBSE-074 |
| - MAC logical channel priority             |           | 1                                 |         | RBSE-075 |
| - Downlink RLC logical channel info        |           |                                   |         | RBSE-076 |
| - Number of RLC logical channels           |           | 1                                 |         | RBSE-077 |
| - Downlink transport channel type          |           | DCH                               |         | RBSE-078 |
| - DL DCH Transport channel identity        |           | 10                                |         | RBSE-079 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBSE-080 |
| - Logical channel identity                 |           | 1                                 |         | RBSE-081 |
| - RB identity                              |           | 2 (AM DCCH for RRC)               |         | RBSE-082 |
| - RB mapping info                          |           |                                   |         | RBSE-083 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBSE-084 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBSE-085 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBSE-086 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBSE-087 |
| - Logical channel identity                 |           | 2                                 |         | RBSE-088 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBSE-089 |
| - DDI                                      |           | 2                                 |         | RBSE-090 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBSE-091 |
| - RLC PDU size                             |           | 96 bits                           |         | RBSE-092 |
| - Include in scheduling info               |           | FALSE                             |         | RBSE-093 |
| - MAC logical channel priority             |           | 2                                 |         | RBSE-094 |
| - Downlink RLC logical channel info        |           |                                   |         | RBSE-095 |
| - Number of RLC logical channels           |           | 1                                 |         | RBSE-096 |
| - Downlink transport channel type          |           | DCH                               |         | RBSE-097 |
| - DL DCH Transport channel identity        |           | 10                                |         | RBSE-098 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBSE-099 |
| - Logical channel identity                 |           | 2                                 |         | RBSE-100 |
| - RB identity                              |           | 3 (AM DCCH for NAS High Priority) |         | RBSE-101 |
| - RB mapping info                          |           |                                   |         | RBSE-102 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBSE-103 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBSE-104 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBSE-105 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBSE-106 |
| - Logical channel identity                 |           | 3                                 |         | RBSE-107 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBSE-108 |
| - DDI                                      |           | 3                                 |         | RBSE-109 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBSE-110 |
| - RLC PDU size                             |           | 96 bits                           |         | RBSE-111 |
| - Include in scheduling info               |           | FALSE                             |         | RBSE-112 |
| - MAC logical channel priority             |           | 3                                 |         | RBSE-113 |
| - Downlink RLC logical channel info        |           |                                   |         | RBSE-114 |
| - Number of RLC logical channels           |           | 1                                 |         | RBSE-115 |
| - Downlink transport channel type          |           | DCH                               |         | RBSE-116 |
| - DL DCH Transport channel identity        |           | 10                                |         | RBSE-117 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBSE-118 |
| - Logical channel identity                 |           | 3                                 |         | RBSE-119 |
| - RB identity                              |           | 4 (AM DCCH for NAS Low Priority)  |         | RBSE-120 |
| - RB mapping info                          |           |                                   |         | RBSE-121 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBSE-122 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Condition  | Value/remark                                                   | Version       | Index    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------|---------------|----------|
| <ul style="list-style-type: none"> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- DDI</li> <li>- RLC PDU size list</li> <li>- RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- Logical channel identity</li> </ul> |            | Not Present                                                    |               | RBSE-123 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 1                                                              |               | RBSE-124 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | E-DCH                                                          |               | RBSE-125 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 4                                                              |               | RBSE-126 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 1                                                              |               | RBSE-127 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 4                                                              |               | RBSE-128 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 1 RLC PDU size                                                 |               | RBSE-129 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 96 bits                                                        |               | RBSE-130 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | FALSE                                                          |               | RBSE-131 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 4                                                              |               | RBSE-132 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                |               | RBSE-133 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 1                                                              |               | RBSE-134 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | DCH                                                            |               | RBSE-135 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 10                                                             |               | RBSE-136 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | Not Present                                                    |               | RBSE-137 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 4                                                              |               | RBSE-138 |
| Downlink counter synchronization info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A1, A2, A3 | Not Present                                                    | Rel-5         | RBSE-139 |
| PDCP ROHC target mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            | Not Present                                                    |               | RBSE-140 |
| UL Transport channel information for all transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | Not Present                                                    |               | RBSE-141 |
| Deleted UL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1         | Not Present                                                    |               | RBSE-142 |
| Deleted UL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A2, A3     |                                                                |               | RBSE-143 |
| <ul style="list-style-type: none"> <li>- Uplink transport channel type</li> <li>- UL transport channel identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            | DCH                                                            |               | RBSE-144 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 5                                                              |               | RBSE-145 |
| Added or Reconfigured TrCH information list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1         | 1 TrCH added                                                   |               | RBSE-146 |
| - Added or Reconfigured UL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | 1 E-DCH added                                                  |               | RBSE-147 |
| - Uplink transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | E-DCH                                                          |               | RBSE-148 |
| - CHOICE UL parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | E-DCH                                                          |               | RBSE-149 |
| - E-DCH Transmission Time Interval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | 10 ms                                                          |               | RBSE-150 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                                |               | RBSE-151 |
| - HARQ info for E-DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                                                |               | RBSE-152 |
| - HARQ RV Configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            | Rv0                                                            |               | RBSE-153 |
| - Added or reconfigured E-DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |                                                                |               |          |
| MAC-d flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |                                                                |               |          |
| - E-DCH MAC-d flow identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | 2                                                              |               | RBSE-154 |
| - E-DCH MAC-d flow power offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 0                                                              |               | RBSE-155 |
| - E-DCH MAC-d flow maximum number of retransmissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | 7                                                              |               | RBSE-156 |
| - E-DCH MAC-d flow multiplexing list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | Not Present                                                    |               | RBSE-157 |
| - CHOICE transmission grant type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            | Scheduled grant info                                           |               | RBSE-158 |
| Added or Reconfigured UL TrCH information list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A2, A3     | 1 TrCH added                                                   |               | RBSE-159 |
| - Added or Reconfigured UL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow |               | RBSE-160 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | E-DCH                                                          |               | RBSE-161 |
| - Uplink transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | E-DCH                                                          |               | RBSE-162 |
| - CHOICE UL parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | <u>(A2: 2ms), (A3 10ms)</u>                                    |               | RBSE-163 |
| - E-DCH Transmission Time Interval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                                                |               | RBSE-164 |
| - HARQ info for E-DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                                                |               | RBSE-165 |
| - HARQ RV Configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            | Rv0                                                            |               | RBSE-166 |
| - Added or reconfigured E-DCH MAC-d flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | (for DCCH)                                                     |               | RBSE-167 |
| - E-DCH MAC-d flow identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | 1                                                              |               | RBSE-168 |
| - E-DCH MAC-d flow power offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 0                                                              |               | RBSE-169 |
| - E-DCH MAC-d flow maximum number of retransmissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | 7                                                              |               |          |
| - E-DCH MAC-d flow multiplexing list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | Not Present                                                    |               | RBSE-170 |
| - CHOICE transmission grant type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            | Non-scheduled grant info                                       |               | RBSE-171 |
| - Max MAC-e PDU contents size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | 114 bits                                                       |               | RBSE-172 |
| - 2 ms non-scheduled transmission grant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            | Not Present                                                    |               | RBSE-173 |
| HARQ process allocation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                                                                |               |          |
| - Added or reconfigured E-DCH MAC-d flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | (for DTCH)                                                     |               | RBSE-174 |
| - E-DCH MAC-d flow identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | 2                                                              |               | RBSE-175 |
| - E-DCH MAC-d flow power offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | 0                                                              |               | RBSE-176 |
| - E-DCH MAC-d flow maximum number of retransmissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | 7                                                              |               | RBSE-177 |
| - E-DCH MAC-d flow multiplexing list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | Not Present                                                    |               | RBSE-178 |
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| CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A1, A2, A3 | Not Present                                                    | R99 and Rel-4 | RBSE-180 |

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| DL Transport channel information common for all transport channels | A2         |                                                                                                        |         | RBSE-182 |
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| - $\Delta_{ACK}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | 3                                                                                                            |                               | RBSE-290 |
| - $\Delta_{NACK}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 3                                                                                                            |                               | RBSE-291 |
| - Ack-Nack repetition factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | 1                                                                                                            |                               | RBSE-292 |
| - HARQ_preamble_mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 0                                                                                                            |                               | RBSE-293 |
| - Scrambling code type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | Long                                                                                                         |                               | RBSE-294 |
| - Scrambling code number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            | 0 (0 to 16777215)                                                                                            |                               | RBSE-295 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Condition  | Value/remark                                                                                                                                                                           | Version                         | Index                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Number of DPDCH<br>- spreading factor<br>- TFCI existence<br>- Number of FBI bit<br>- Puncturing Limit                                                                                                                                                                                                                                                                                                                                                                        | A1         | Not Present(1)<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set |                                 | RBSE-296<br>RBSE-297<br>RBSE-298<br>RBSE-299<br>RBSE-300                                                                                                                                     |
| - Number of DPDCH<br>- spreading factor<br>- TFCI existence<br>- Number of FBI bit<br>- Puncturing Limit                                                                                                                                                                                                                                                                                                                                                                        | A2, A3     | 0<br>Not present<br>FALSE<br>Not present<br>Not present                                                                                                                                |                                 | RBSE-301<br>RBSE-302<br>RBSE-303<br>RBSE-304<br>RBSE-305                                                                                                                                     |
| E-DCH info<br>- MAC-es/e reset indicator<br>- E-DPCCH info<br>- E-DPCCH/DPCCH power offset<br>- Happy bit delay condition<br>- E-TFCI boost info<br>- E-TFCI BetaED SwitchE-DPDCH power interpolation                                                                                                                                                                                                                                                                           | A1, A2, A3 | TRUE<br><br>0<br>100 ms<br>Not present<br>Not present                                                                                                                                  | Rel-6<br><br><br>Rel-7<br>Rel-7 | RBSE-306<br>RBSE-307<br>RBSE-308<br>RBSE-309<br>RBSE-310<br>RBSE-311<br>RBSE-312                                                                                                             |
| - E-DPDCH info<br>- E-TFCI table index<br>- E-DCH minimum set E-TFCI<br>- Reference E-TFCIs<br>- Reference E-TFCI<br>- Reference E-TFCI PO<br>- Maximum channelisation codes<br>- PLnon-max<br>- Scheduling Information Configuration<br>- Periodicity for Scheduling Info – no grant<br>- Periodicity for Scheduling Info – grant<br>- Power Offset for Scheduling Info<br>- 3-Index-Step Threshold<br>- 2-Index-Step Threshold                                                | A1, A3     | 0<br>9<br>1 E-TFCI<br>11<br>4<br>2sf4<br>0.84<br><br>Not present<br>Not present<br>0<br>Not present<br>Not present                                                                     |                                 | RBSE-313<br>RBSE-314<br>RBSE-315<br>RBSE-316<br>RBSE-317<br>RBSE-318<br>RBSE-319<br>RBSE-320<br>RBSE-321<br>RBSE-322<br>RBSE-323<br>RBSE-324<br>RBSE-325<br>RBSE-326                         |
| - E-DPDCH info<br>- E-TFCI table index<br>- E-DCH minimum set E-TFCI<br>- Reference E-TFCIs<br>- Reference E-TFCI<br>- Reference E-TFCI PO<br>- Reference E-TFCI<br>- Reference E-TFCI PO<br>- Maximum channelisation codes<br>- PLnon-max<br>- Scheduling Information Configuration<br>- Periodicity for Scheduling Info – no grant<br>- Periodicity for Scheduling Info – grant<br>- Power Offset for Scheduling Info<br>- 3-Index-Step Threshold<br>- 2-Index-Step Threshold | A2         | 0<br>9<br>2 E-TFCI<br>11<br>4<br>83<br>16<br>2sf2and2sf4<br>0.84<br><br>Not present<br>Not present<br>0<br>Not present<br>Not present                                                  |                                 | RBSE-327<br>RBSE-328<br>RBSE-329<br>RBSE-330<br>RBSE-331<br>RBSE-332<br>RBSE-333<br>RBSE-334<br>RBSE-335<br>RBSE-336<br>RBSE-337<br>RBSE-338<br>RBSE-339<br>RBSE-340<br>RBSE-341<br>RBSE-342 |
| - Scheduled Transmission configuration<br>- 2ms scheduled transmission grant HARQ process allocation<br>- Serving Grant                                                                                                                                                                                                                                                                                                                                                         | A1, A2, A3 | Not present<br><br>Not present                                                                                                                                                         |                                 | RBSE-343<br>RBSE-344<br>RBSE-345                                                                                                                                                             |
| - UL 16QAM settings                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | Not present                                                                                                                                                                            | Rel-7                           | RBSE-346                                                                                                                                                                                     |
| CHOICE Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | FDD                                                                                                                                                                                    | R99 and Rel-4 only              | RBSE-347                                                                                                                                                                                     |
| - Downlink PDSCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | Not Present                                                                                                                                                                            | R99 and Rel-4 only              | RBSE-348                                                                                                                                                                                     |
| Downlink HS-PDSCH Information<br>- HS-SCCH Info<br>- CHOICE mode<br>- DL Scrambling Code<br>- HS-SCCH Channelisation Code<br>Information<br>- HS-SCCH Channelisation Code<br>- HS-SCCH Channelisation Code                                                                                                                                                                                                                                                                      |            | FDD<br>Not present<br><br>2<br>3                                                                                                                                                       |                                 | RBSE-349<br>RBSE-350<br>RBSE-351<br>RBSE-352<br>RBSE-353<br>RBSE-354<br>RBSE-355                                                                                                             |

| Information Element                             | Condition  | Value/remark                                                                  | Version            | Index    |
|-------------------------------------------------|------------|-------------------------------------------------------------------------------|--------------------|----------|
| - Measurement Feedback Info                     |            | FDD                                                                           |                    | RBSE-356 |
| - CHOICE mode                                   |            | 6 dB                                                                          |                    | RBSE-357 |
| - POHsdSch                                      |            | 2 ms                                                                          |                    | RBSE-358 |
| - CQI Feedback cycle, k                         |            | 1                                                                             |                    | RBSE-359 |
| - CQI repetition factor                         |            | 5 (corresponds to 0dB in relative power offset)                               |                    | RBSE-360 |
| - $\Delta_{CQI}$                                |            | FDD                                                                           |                    | RBSE-361 |
| - CHOICE mode                                   |            | Not Present                                                                   | Rel-7              | RBSE-362 |
| - Downlink 64QAM configured                     |            |                                                                               |                    | RBSE-363 |
| Downlink information common for all radio links | A1, A3     | Not Present                                                                   |                    | RBSE-364 |
| Downlink information common for all radio links | A2         |                                                                               |                    | RBSE-365 |
| - Downlink DPCH info common for all RL          |            | Maintain                                                                      |                    | RBSE-366 |
| - Timing indicator                              |            | Not Present                                                                   |                    | RBSE-367 |
| - CFN-targetSFN frame offset                    |            |                                                                               |                    | RBSE-368 |
| - Downlink DPCH power control information       |            |                                                                               |                    | RBSE-369 |
| - DPC mode                                      |            | 0 (single)                                                                    |                    | RBSE-370 |
| - CHOICE mode                                   |            | FDD                                                                           |                    | RBSE-371 |
| - Power offset PPilot-DPDCH                     |            | 0                                                                             |                    | RBSE-372 |
| - DL rate matching restriction information      |            | Not Present                                                                   |                    | RBSE-373 |
| - Spreading factor                              |            | 256                                                                           |                    | RBSE-374 |
| - Fixed or Flexible Position                    |            | Fixed                                                                         |                    | RBSE-375 |
| - TFCI existence                                |            | FALSE                                                                         |                    | RBSE-376 |
| - CHOICE SF                                     |            | 256                                                                           |                    | RBSE-377 |
| - Number of bits for Pilot bits                 |            | 8                                                                             |                    | RBSE-378 |
| - CHOICE mode                                   |            | FDD                                                                           |                    | RBSE-379 |
| - DPCH compressed mode info                     |            | Not Present                                                                   |                    | RBSE-380 |
| - TX Diversity mode                             |            | None                                                                          |                    | RBSE-381 |
| - Default DPCH Offset Value                     |            | Not Present                                                                   |                    | RBSE-382 |
| - MAC-hs reset indicator                        |            | Not Present                                                                   |                    | RBSE-383 |
| - Post-verification period                      |            | Not Present                                                                   |                    | RBSE-384 |
| Downlink information for each radio link list   | A1, A2, A3 |                                                                               |                    | RBSE-385 |
| - Downlink information for each radio link      |            |                                                                               |                    | RBSE-386 |
| - Choice mode                                   |            | FDD                                                                           |                    | RBSE-387 |
| - Primary CPICH info                            |            | Ref. to clause 6.1 "Default settings (FDD)"                                   |                    | RBSE-388 |
| - Primary scrambling code                       |            | Not Present                                                                   |                    | RBSE-389 |
| - PDSCH with SHO DCH info                       |            |                                                                               | R99 and Rel-4 only | RBSE-390 |
| - PDSCH code mapping                            |            | Not Present                                                                   | R99 and Rel-4 only | RBSE-391 |
| - Serving HS-DSCH radio link indicator          |            | TRUE                                                                          |                    | RBSE-392 |
| - Serving E-DCH radio link indicator            |            | TRUE                                                                          |                    | RBSE-393 |
| - Downlink DPCH info for each RL                |            |                                                                               |                    | RBSE-394 |
| - CHOICE mode                                   |            | FDD                                                                           |                    | RBSE-395 |
| - Primary CPICH usage for channel estimation    |            | Primary CPICH may be used                                                     |                    | RBSE-396 |
| - DPCH frame offset                             |            | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |                    | RBSE-397 |
| - Secondary CPICH info                          |            | Not Present                                                                   |                    | RBSE-398 |
| - DL channelisation code                        |            |                                                                               |                    | RBSE-399 |
| - Secondary scrambling code                     |            | Not Present                                                                   |                    | RBSE-400 |
| - Spreading factor                              | A1         | Reference to clause 6.10 Parameter Set 96                                     |                    | RBSE-401 |
| - Code number                                   |            |                                                                               |                    | RBSE-402 |
| - Spreading factor                              | A2, A3     | 256                                                                           |                    | RBSE-403 |
| - Code number                                   |            | 192                                                                           |                    | RBSE-404 |
| - Scrambling code change                        | A1, A2, A3 | No code change                                                                |                    | RBSE-405 |
| - TPC combination index                         |            | 0                                                                             |                    | RBSE-406 |
| - SSDT Cell Identity                            |            | Not Present                                                                   |                    | RBSE-407 |
| - Closed loop timing adjustment mode            |            | Not Present                                                                   | R99 and Rel-4 only | RBSE-408 |
| - E-AGCH Info                                   |            |                                                                               | Rel-6              | RBSE-409 |
| - E-AGCH Channelisation Code                    |            | 14                                                                            |                    | RBSE-410 |
| - CHOICE E-HICH Information                     |            |                                                                               | Rel-6              | RBSE-411 |
| - E-HICH Information                            |            |                                                                               |                    | RBSE-412 |

| Information Element                     | Condition | Value/remark                     | Version            | Index    |
|-----------------------------------------|-----------|----------------------------------|--------------------|----------|
| - DL Scrambling code                    |           | Not Present (default is primary) |                    | RBSE-413 |
| - Channelisation code                   |           | 6                                |                    | RBSE-414 |
| - Signature sequence                    |           | 1                                |                    | RBSE-415 |
| - CHOICE E-RGCH Information             |           | Not Present                      | Rel-6              | RBSE-416 |
| - SCCPCH information for FACH           |           | Not Present                      | R99 and Rel-4 only | RBSE-417 |
| MBMS PL Service Restriction Information |           | Not Present                      | Rel-6              | RBSE-418 |

| Condition | Explanation                                                                |
|-----------|----------------------------------------------------------------------------|
| A1        | Not using E-DCH 4codes except sub-test 5 in TS 34.121-1 [2] Table C.11.1.3 |
| A2        | Using E-DCH 4codes                                                         |
| A3        | Sub-test 5 in TS 34.121-1 [2] Table C.11.1.3                               |

Contents of RADIO BEARER SETUP message: AM or UM (HSDPA with F-DPCH)

| Information Element                        | Value/remark                                                                                                                                                       | Version | Index    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                               |                                                                                                                                                                    | Rel-6   | RBSF-001 |
| RRC transaction identifier                 | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBSF-002 |
| Integrity check info                       |                                                                                                                                                                    |         | RBSF-003 |
| - message authentication code              | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | RBSF-004 |
| - RRC message sequence number              | SS provides the value of this IE, from its internal counter.                                                                                                       |         | RBSF-005 |
| Integrity protection mode info             | Not Present                                                                                                                                                        |         | RBSF-006 |
| Ciphering mode info                        | Not Present                                                                                                                                                        |         | RBSF-007 |
| Activation time                            | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |         | RBSF-008 |
| New U-RNTI                                 | Not Present                                                                                                                                                        | Rel-6   | RBSF-009 |
| New C-RNTI                                 | Not Present                                                                                                                                                        | Rel-6   | RBSF-010 |
| New H-RNTI                                 | '1010 1010 1010 1010'                                                                                                                                              | Rel-6   | RBSF-011 |
| New Primary E-RNTI                         | Not Present                                                                                                                                                        | Rel-6   | RBSF-012 |
| New Secondary E-RNTI                       | Not Present                                                                                                                                                        | Rel-6   | RBSF-013 |
| RRC State indicator                        | CELL_DCH                                                                                                                                                           | Rel-6   | RBSF-014 |
| UTRAN DRX cycle length coefficient         | Not Present                                                                                                                                                        | Rel-6   | RBSF-015 |
| CN information info                        | Not Present                                                                                                                                                        |         | RBSF-016 |
| URA identity                               | Not Present                                                                                                                                                        |         | RBSF-017 |
| CHOICE Specification mode                  | Complete specification                                                                                                                                             | Rel-6   | RBSF-018 |
| - Signalling RB information to setup       | Not Present                                                                                                                                                        |         | RBSF-019 |
| - RAB information for setup                |                                                                                                                                                                    |         | RBSF-020 |
| - RAB info                                 | (high-speed UM DTCH for PS domain)                                                                                                                                 |         | RBSF-021 |
| - RAB identity                             | 0000 0110B                                                                                                                                                         |         | RBSF-022 |
| - CN domain identity                       | PS domain                                                                                                                                                          |         | RBSF-023 |
| - NAS Synchronization Indicator            | Not Present                                                                                                                                                        |         | RBSF-024 |
| - Re-establishment timer                   | useT315                                                                                                                                                            |         | RBSF-025 |
| - RB information to setup                  |                                                                                                                                                                    |         | RBSF-026 |
| - RB identity                              | 25                                                                                                                                                                 |         | RBSF-027 |
| - PDCP info                                | Not Present                                                                                                                                                        |         | RBSF-028 |
| - CHOICE RLC info type                     | RLC info                                                                                                                                                           |         | RBSF-029 |
| - CHOICE Uplink RLC mode                   | Not present                                                                                                                                                        |         | RBSF-030 |
| - CHOICE Downlink RLC mode                 | UM RLC                                                                                                                                                             |         | RBSF-031 |
| - DL UM RLC LI size                        | Selected with DL UM RLC data size                                                                                                                                  | Rel-5   | RBSF-032 |
| - One sided RLC re-establishment           | FALSE                                                                                                                                                              | Rel-5   | RBSF-033 |
| - RB mapping info                          |                                                                                                                                                                    |         | RBSF-034 |
| - Information for each multiplexing option | 1 RBMuxOption                                                                                                                                                      |         | RBSF-035 |
| - RLC logical channel mapping indicator    | Not Present                                                                                                                                                        |         | RBSF-036 |
| - Number of uplink RLC logical channels    | 1                                                                                                                                                                  |         | RBSF-037 |
| - Downlink RLC logical channel info        |                                                                                                                                                                    |         | RBSF-038 |
| - Number of downlink RLC logical channels  | 1                                                                                                                                                                  |         | RBSF-039 |
| - Downlink transport channel type          | HS-DSCH                                                                                                                                                            |         | RBSF-040 |
| - DL DCH Transport channel identity        | Not present                                                                                                                                                        |         | RBSF-041 |
| - DL DSCH Transport channel identity       | Not present                                                                                                                                                        |         | RBSF-042 |
| - CHOICE DL MAC header type                | MAC-hs                                                                                                                                                             | Rel-7   | RBSF-043 |

| Information Element                        | Value/remark                      | Version | Index    |
|--------------------------------------------|-----------------------------------|---------|----------|
| - DL HS-DSCH MAC-d flow identity           | 1                                 |         | RBSF-044 |
| - Logical channel identity                 | Not Present                       |         | RBSF-045 |
| RB information to reconfigure list         | Not Present                       | Rel-6   | RBSF-046 |
| RB information to be affected              |                                   | Rel-6   | RBSF-047 |
| - RB identity                              | 1 (UM DCCH for RRC)               |         | RBSF-048 |
| - RB mapping info                          |                                   |         | RBSF-049 |
| - Information for each multiplexing option | 1 RBMuxOption                     |         | RBSF-050 |
| - RLC logical channel mapping indicator    | Not Present                       |         | RBSF-051 |
| - Number of uplink RLC logical channels    | 1                                 |         | RBSF-052 |
| - Uplink transport channel type            | DCH                               |         | RBSF-053 |
| - UL Transport channel identity            | 5                                 |         | RBSF-054 |
| - Logical channel identity                 | 1                                 |         | RBSF-055 |
| - CHOICE RLC size list                     | Configured                        |         | RBSF-056 |
| - MAC logical channel priority             | 1                                 |         | RBSF-057 |
| - Downlink RLC logical channel info        |                                   |         | RBSF-058 |
| - Number of RLC logical channels           | 1                                 |         | RBSF-059 |
| - Downlink transport channel type          | HS-DSCH                           |         | RBSF-060 |
| - DL DCH Transport channel identity        | Not present                       |         | RBSF-061 |
| - DL DSCH Transport channel identity       | Not present                       |         | RBSF-062 |
| - CHOICE DL MAC header type                | MAC-hs                            | Rel-7   | RBSF-063 |
| - DL HS-DSCH MAC-d flow identity           | 0                                 |         | RBSF-064 |
| - Logical channel identity                 | 1                                 |         | RBSF-065 |
| - RB identity                              | 2 (AM DCCH for RRC)               |         | RBSF-066 |
| - RB mapping info                          |                                   |         | RBSF-067 |
| - Information for each multiplexing option | 1 RBMuxOption                     |         | RBSF-068 |
| - RLC logical channel mapping indicator    | Not Present                       |         | RBSF-069 |
| - Number of uplink RLC logical channels    | 1                                 |         | RBSF-070 |
| - Uplink transport channel type            | DCH                               |         | RBSF-071 |
| - UL Transport channel identity            | 5                                 |         | RBSF-072 |
| - Logical channel identity                 | 2                                 |         | RBSF-073 |
| - CHOICE RLC size list                     | Configured                        |         | RBSF-074 |
| - MAC logical channel priority             | 2                                 |         | RBSF-075 |
| - Downlink RLC logical channel info        |                                   |         | RBSF-076 |
| - Number of RLC logical channels           | 1                                 |         | RBSF-077 |
| - Downlink transport channel type          | HS-DSCH                           |         | RBSF-078 |
| - DL DCH Transport channel identity        | Not Present                       |         | RBSF-079 |
| - DL DSCH Transport channel identity       | Not Present                       |         | RBSF-080 |
| - CHOICE DL MAC header type                | MAC-hs                            | Rel-7   | RBSF-081 |
| - DL HS-DSCH MAC-d flow identity           | 0                                 |         | RBSF-082 |
| - Logical channel identity                 | 2                                 |         | RBSF-083 |
| - RB identity                              | 3 (AM DCCH for NAS High Priority) |         | RBSF-084 |
| - RB mapping info                          |                                   |         | RBSF-085 |
| - Information for each multiplexing option | 1 RBMuxOption                     |         | RBSF-086 |
| - RLC logical channel mapping indicator    | Not Present                       |         | RBSF-087 |
| - Number of uplink RLC logical channels    | 1                                 |         | RBSF-088 |
| - Uplink transport channel type            | DCH                               |         | RBSF-089 |
| - UL Transport channel identity            | 5                                 |         | RBSF-090 |
| - Logical channel identity                 | 3                                 |         | RBSF-091 |
| - CHOICE RLC size list                     | Configured                        |         | RBSF-092 |
| - MAC logical channel priority             | 3                                 |         | RBSF-093 |
| - Downlink RLC logical channel info        |                                   |         | RBSF-094 |
| - Number of RLC logical channels           | 1                                 |         | RBSF-095 |
| - Downlink transport channel type          | HS-DSCH                           |         | RBSF-096 |
| - DL DCH Transport channel identity        | Not Present                       |         | RBSF-097 |
| - DL DSCH Transport channel identity       | Not Present                       |         | RBSF-098 |
| - CHOICE DL MAC header type                | MAC-hs                            | Rel-7   | RBSF-099 |
| - DL HS-DSCH MAC-d flow identity           | 0                                 |         | RBSF-100 |
| - Logical channel identity                 | 3                                 |         | RBSF-101 |
| - RB identity                              | 4 (AM DCCH for NAS Low Priority)  |         | RBSF-102 |
| - RB mapping info                          |                                   |         | RBSF-103 |
| - Information for each multiplexing option | 1 RBMuxOption                     |         | RBSF-104 |
| - RLC logical channel mapping indicator    | Not Present                       |         | RBSF-105 |
| - Number of uplink RLC logical channels    | 1                                 |         | RBSF-106 |
| - Uplink transport channel type            | DCH                               |         | RBSF-107 |
| - UL Transport channel identity            | 5                                 |         | RBSF-108 |
| - Logical channel identity                 | 4                                 |         | RBSF-109 |
| - CHOICE RLC size list                     | Configured                        |         | RBSF-110 |

| Information Element                                               | Value/remark                       | Version | Index    |
|-------------------------------------------------------------------|------------------------------------|---------|----------|
| - MAC logical channel priority                                    | 4                                  | Rel-7   | RBSF-111 |
| - Downlink RLC logical channel info                               | 1                                  |         | RBSF-112 |
| - Number of RLC logical channels                                  | HS-DSCH                            |         | RBSF-113 |
| - Downlink transport channel type                                 | Not Present                        |         | RBSF-114 |
| - DL DCH Transport channel identity                               | Not Present                        |         | RBSF-115 |
| - DL DSCH Transport channel identity                              | MAC-hs                             |         | RBSF-116 |
| - CHOICE DL MAC header type                                       | 0                                  |         | RBSF-117 |
| - DL HS-DSCH MAC-d flow identity                                  | 4                                  |         | RBSF-118 |
| - Logical channel identity                                        |                                    |         | RBSF-119 |
| Downlink counter synchronization info                             | Not Present                        | Rel-6   | RBSF-120 |
| PDCP ROHC target mode                                             | Not Present                        | Rel-6   | RBSF-121 |
| UL Transport channel information for all transport channels       |                                    | Rel-6   | RBSF-122 |
| - PRACH TFCS                                                      | Not Present                        |         | RBSF-123 |
| - CHOICE Mode                                                     | FDD                                |         | RBSF-124 |
| - TFC subset                                                      | Not Present                        |         | RBSF-125 |
| - UL DCH TFCS                                                     |                                    |         | RBSF-126 |
| - CHOICE TFCI signalling                                          | Normal                             |         | RBSF-127 |
| - TFCI Field 1 information                                        |                                    |         | RBSF-128 |
| - CHOICE TFCS representation                                      | Complete reconfiguration           |         | RBSF-129 |
| - TFCS complete reconfiguration information                       |                                    |         | RBSF-130 |
| - CHOICE CTFC Size                                                | 2 bit CTFC                         |         | RBSF-131 |
| - CTFC information                                                | 2 TFCs                             |         | RBSF-132 |
| - 2bit CTFC                                                       | 0                                  |         | RBSF-133 |
| - Power offset Information                                        |                                    |         | RBSF-134 |
| - CHOICE Gain Factors                                             | computedGainFactors                |         | RBSF-135 |
| - Reference TFC ID                                                | 0                                  |         | RBSF-136 |
| - CHOICE mode                                                     | FDD                                |         | RBSF-137 |
| - Power offset Pp-m                                               | Not Present                        |         | RBSF-138 |
| - 2bit CTFC                                                       | 1                                  |         | RBSF-139 |
| - Power offset Information                                        |                                    |         | RBSF-140 |
| - CHOICE Gain Factors                                             | signalledGainFactors               |         | RBSF-141 |
| - CHOICE mode                                                     | FDD                                |         | RBSF-142 |
| - Gain factor $\beta_c$                                           | 15                                 |         | RBSF-143 |
| - Gain factor $\beta_d$                                           | 15                                 |         | RBSF-144 |
| - Reference TFC ID                                                | 0                                  |         | RBSF-145 |
| - CHOICE mode                                                     | FDD                                |         | RBSF-146 |
| - Power offset Pp-m                                               | Not Present                        |         | RBSF-147 |
| Deleted UL TrCH information                                       | Not Present                        | Rel-6   | RBSF-148 |
| Added or Reconfigured UL TrCH information                         |                                    | Rel-6   | RBSF-149 |
| - Added or Reconfigured UL TrCH information                       |                                    |         | RBSF-150 |
| - Uplink transport channel type                                   | DCH                                |         | RBSF-151 |
| - UL Transport channel identity                                   | 5                                  |         | RBSF-152 |
| - TFS                                                             |                                    |         | RBSF-153 |
| - CHOICE Transport channel type                                   | Dedicated transport channels       |         | RBSF-154 |
| - Dynamic Transport Format Information                            |                                    |         | RBSF-155 |
| - RLC size                                                        | 96 bits                            |         | RBSF-156 |
| - Number of TBs and TTI List                                      | 2                                  |         | RBSF-157 |
| - Transmission Time Interval                                      | Not Present                        |         | RBSF-158 |
| - Number of Transport blocks                                      | 0                                  |         | RBSF-159 |
| - Transmission Time Interval                                      | Not Present                        |         | RBSF-160 |
| - Number of Transport blocks                                      | 1                                  |         | RBSF-161 |
| - CHOICE Logical channel List                                     | ALL                                |         | RBSF-162 |
| - Semi-static Transport Format Information                        |                                    |         | RBSF-163 |
| - Transmission time interval                                      | 40                                 |         | RBSF-164 |
| - Type of channel coding                                          | Convolutional                      |         | RBSF-165 |
| - Coding Rate                                                     | 1/3                                |         | RBSF-166 |
| - Rate matching attribute                                         | 256                                |         | RBSF-167 |
| - CRC size                                                        | 12                                 |         | RBSF-168 |
| DL Transport channel information common for all transport channel | Not Present                        | Rel-6   | RBSF-169 |
| Deleted DL TrCH information                                       |                                    | Rel-6   | RBSF-170 |
| - Downlink transport channel type                                 | DCH                                |         | RBSF-171 |
| - DL Transport channel identity                                   | 10                                 |         | RBSF-172 |
| Added or Reconfigured DL TrCH information                         | 1 TrCH (HS-DSCH for DTCH and DCCH) | Rel-6   | RBSF-173 |
| - Downlink transport channel type                                 | HS-DSCH                            |         | RBSF-174 |
| - DL Transport channel identity                                   | Not Present                        |         | RBSF-175 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Value/remark                                                                                           | Version | Index    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------|----------|
| <ul style="list-style-type: none"> <li>- CHOICE DL parameters <ul style="list-style-type: none"> <li>- HARQ Info <ul style="list-style-type: none"> <li>- Number of Processes</li> </ul> </li> <li>- CHOICE <i>Memory Partitioning</i> <ul style="list-style-type: none"> <li>- Memory size</li> </ul> </li> <li>- Process Memory Size</li> <li>- Additional memory sizes for MIMO</li> </ul> </li> <li>- CHOICE DL MAC header type <ul style="list-style-type: none"> <li>- Added or reconfigured MAC-d flow <ul style="list-style-type: none"> <li>- MAC-hs queue to add or reconfigure list <ul style="list-style-type: none"> <li>- MAC-hs queue Id</li> <li>- MAC-d Flow Identity</li> <li>- T1</li> <li>- MAC-hs window size</li> <li>- MAC-d PDU size Info <ul style="list-style-type: none"> <li>- MAC-d PDU size</li> <li>- MAC-d PDU size index</li> </ul> </li> <li>- MAC-hs queue Id</li> <li>- MAC-d Flow Identity</li> <li>- T1</li> <li>- MAC-hs window size</li> <li>- MAC-d PDU size Info <ul style="list-style-type: none"> <li>- MAC-d PDU size</li> <li>- MAC-d PDU size index</li> </ul> </li> <li>- MAC-hs queue to delete list</li> </ul> </li> <li>- DCH quality target</li> </ul> </li> </ul> </li></ul> | HS-DSCH                                                                                                |         | RBSF-176 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Reference to TS34.121 [2] Annex C Fixed Reference Channels                                             |         | RBSF-177 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Explicit                                                                                               |         | RBSF-178 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of HARQ Processes".       |         | RBSF-179 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". |         | RBSF-180 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Not Present                                                                                            | Rel-7   | RBSF-181 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MAC-hs                                                                                                 | Rel-7   | RBSF-182 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (two queues)                                                                                           |         | RBSF-183 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0 (for DCCH)                                                                                           |         | RBSF-184 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0                                                                                                      |         | RBSF-185 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 50                                                                                                     |         | RBSF-186 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 16                                                                                                     |         | RBSF-187 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                        |         | RBSF-188 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                        |         | RBSF-189 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                        |         | RBSF-190 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 100                                                                                                    |         | RBSF-191 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0                                                                                                      |         | RBSF-192 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 (for DTCH)                                                                                           |         | RBSF-193 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                                                                                                      |         | RBSF-194 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 50                                                                                                     |         | RBSF-195 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 16                                                                                                     |         | RBSF-196 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Reference to TS34.121 [2] Annex C Fixed Reference Channels                                             |         | RBSF-197 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0                                                                                                      |         | RBSF-198 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Not present                                                                                            |         | RBSF-199 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Not present                                                                                            |         | RBSF-200 |
| Frequency info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Not present                                                                                            |         | RBSF-201 |
| Multi-frequency Info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not present                                                                                            |         | RBSF-202 |
| DTX-DRX timing information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not present                                                                                            | Rel-7   | RBSF-203 |
| DRX Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Not present                                                                                            | Rel-7   | RBSF-204 |
| HS-SCCH less Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Not present                                                                                            | Rel-7   | RBSF-205 |
| MIMO parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Not present                                                                                            | Rel-7   | RBSF-206 |
| Maximum allowed UL TX power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 33dBm                                                                                                  |         | RBSF-207 |
| Uplink DPCH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                        | Rel-6   | RBSF-208 |
| - Uplink DPCH power control info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                        |         | RBSF-209 |
| - DPCCCH power offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -40 (-80dB)                                                                                            |         | RBSF-210 |
| - PC Preamble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 frame                                                                                                |         | RBSF-211 |
| - SRB delay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7 frames                                                                                               |         | RBSF-212 |
| - Power Control Algorithm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Algorithm1                                                                                             |         | RBSF-213 |
| - TPC step size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0 (1dB)                                                                                                |         | RBSF-214 |
| - $\Delta_{ACK}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3                                                                                                      |         | RBSF-215 |
| - $\Delta_{NACK}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3                                                                                                      |         | RBSF-216 |
| - Ack-Nack repetition factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                                                                                      |         | RBSF-217 |
| - HARQ_preamble_mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0                                                                                                      |         | RBSF-218 |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FDD                                                                                                    |         | RBSF-219 |
| - Scrambling code type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Long                                                                                                   |         | RBSF-220 |
| - Scrambling code number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 (0 to 16777215)                                                                                      |         | RBSF-221 |
| - Number of DPDCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Not Present (1)                                                                                        |         | RBSF-222 |
| - spreading factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 256                                                                                                    |         | RBSF-223 |
| - TFCI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TRUE                                                                                                   |         | RBSF-224 |
| - Number of FBI bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Not Present(0)                                                                                         |         | RBSF-225 |
| - Puncturing Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                                                                                      |         | RBSF-226 |
| E-DCH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not Present                                                                                            | Rel-6   | RBSF-227 |
| Downlink HS-PDSCH Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                        | Rel-6   | RBSF-228 |
| - HS-SCCH Info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                        |         | RBSF-229 |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FDD                                                                                                    |         | RBSF-230 |
| - DL Scrambling Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not present                                                                                            |         | RBSF-231 |
| - HS-SCCH Channelisation Code Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                        |         | RBSF-232 |
| - HS-SCCH Channelisation Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2                                                                                                      |         | RBSF-233 |
| - Measurement Feedback Info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                        |         | RBSF-234 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                        |         | RBSF-235 |

| Information Element                             | Value/remark                                                                  | Version | Index    |
|-------------------------------------------------|-------------------------------------------------------------------------------|---------|----------|
| - CHOICE mode                                   | FDD                                                                           |         | RBSF-236 |
| - POHsdSch                                      | 6 dB                                                                          |         | RBSF-237 |
| - CQI Feedback cycle, k                         | 2 ms                                                                          |         | RBSF-238 |
| - CQI repetition factor                         | 1                                                                             |         | RBSF-239 |
| - $\Delta_{CQI}$                                | 5 (corresponds to 0dB in relative power offset)                               |         | RBSF-240 |
| - CHOICE mode                                   | FDD                                                                           |         | RBSF-241 |
| - Downlink 64QAM configured                     | Not Present                                                                   | Rel-7   | RBSF-242 |
| Downlink information common for all radio links |                                                                               | Rel-6   | RBSF-243 |
| - Downlink F-DPCH info common for all RL        |                                                                               |         | RBSF-244 |
| - Timing Indication                             | Maintain                                                                      |         | RBSF-245 |
| - Timing maintained Synchronization indicator   | FALSE                                                                         |         | RBSF-246 |
| - Downlink F-DPCH power control information     |                                                                               |         | RBSF-247 |
| - DPC mode                                      | 0 (single)                                                                    |         | RBSF-248 |
| - TPC command error rate target                 | 0.04                                                                          |         | RBSF-249 |
| - CHOICE mode                                   | FDD                                                                           |         | RBSF-250 |
| - DPCH compressed mode info                     | Not Present                                                                   |         | RBSF-251 |
| - TX Diversity mode                             | None                                                                          |         | RBSF-252 |
| - Default DPCH Offset Value                     | Not Present                                                                   |         | RBSF-253 |
| - MAC-hs reset indicator                        | Not Present                                                                   |         | RBSF-254 |
| Downlink information for each radio link list   |                                                                               | Rel-6   | RBSF-255 |
| - Downlink information for each radio link      |                                                                               |         | RBSF-256 |
| - Choice mode                                   | FDD                                                                           |         | RBSF-257 |
| - Primary CPICH info                            |                                                                               |         | RBSF-258 |
| - Primary scrambling code                       | Ref. to clause 6.1 "Default settings (FDD)"                                   |         | RBSF-259 |
| - Serving HS-DSCH radio link indicator          | TRUE                                                                          |         | RBSF-260 |
| - Downlink DPCH info for each RL                | Not Present                                                                   |         | RBSF-261 |
| - Downlink F-DPCH info for each RL              |                                                                               |         | RBSF-262 |
| - Primary CPICH usage for channel estimation    | Primary CPICH may be used                                                     |         | RBSF-263 |
| - F-DPCH frame offset                           | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |         | RBSF-264 |
| - Secondary CPICH info                          | Not Present                                                                   |         | RBSF-265 |
| - Secondary scrambling code                     | Not Present                                                                   |         | RBSF-266 |
| - Code number                                   | 6                                                                             |         | RBSF-267 |
| - TPC combination index                         | 0                                                                             |         | RBSF-268 |
| MBMS PL Service Restriction Information         | Not Present                                                                   | Rel-6   | RBSF-269 |

## Contents of RADIO BEARER SETUP message: AM or UM (DC-HSDPA)

| Information Element                | Value/remark                                                                                                                                                       | Version | Index    |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                       |                                                                                                                                                                    |         | RBSD-001 |
| RRC transaction identifier         | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBSD-002 |
| Integrity check info               |                                                                                                                                                                    |         | RBSD-003 |
| - message authentication code      | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | RBSD-004 |
| - RRC message sequence number      | SS provides the value of this IE, from its internal counter.                                                                                                       |         | RBSD-005 |
| Integrity protection mode info     | Not Present                                                                                                                                                        |         | RBSD-006 |
| Ciphering mode info                | Not Present                                                                                                                                                        |         | RBSD-007 |
| Activation time                    | Not Present                                                                                                                                                        |         | RBSD-008 |
| New U-RNTI                         | Not Present                                                                                                                                                        |         | RBSD-009 |
| New C-RNTI                         | Not Present                                                                                                                                                        |         | RBSD-010 |
| New H-RNTI                         | '1010 1010 1010 1010'                                                                                                                                              | Rel-5   | RBSD-011 |
| New Primary E-RNTI                 | Not Present                                                                                                                                                        | Rel-6   | RBSD-012 |
| New Secondary E-RNTI               | Not Present                                                                                                                                                        | Rel-6   | RBSD-013 |
| RRC State indicator                | CELL_DCH                                                                                                                                                           |         | RBSD-014 |
| UTRAN DRX cycle length coefficient | Not Present                                                                                                                                                        |         | RBSD-015 |
| CN information info                | Not Present                                                                                                                                                        |         | RBSD-016 |
| URA identity                       | Not Present                                                                                                                                                        |         | RBSD-017 |
| CHOICE specification mode          | Complete specification                                                                                                                                             | Rel-6   | RBSD-018 |
| Signalling RB information to setup | Not Present                                                                                                                                                        |         | RBSD-019 |
| RAB information for setup list     |                                                                                                                                                                    |         | RBSD-020 |
| - RAB information for setup        |                                                                                                                                                                    |         | RBSD-021 |
| - RAB info                         | (high-speed UM DTCH for PS domain)                                                                                                                                 |         | RBSD-022 |



| Information Element                                               | Value/remark                                                                                                   | Version | Index    |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------|----------|
| - RAB identity                                                    | 0000 0110B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBSD-023 |
| - CN domain identity                                              | PS domain                                                                                                      |         | RBSD-024 |
| - NAS Synchronization Indicator                                   | Not Present                                                                                                    |         | RBSD-025 |
| - Re-establishment timer                                          | UseT315                                                                                                        |         | RBSD-026 |
| - RB information to setup                                         |                                                                                                                |         | RBSD-027 |
| - RB identity                                                     | 25                                                                                                             |         | RBSD-028 |
| - PDCP info                                                       | Not Present                                                                                                    |         | RBSD-029 |
| - CHOICE RLC info type                                            | RLC info                                                                                                       |         | RBSD-030 |
| - CHOICE Uplink RLC mode                                          | Not Present                                                                                                    |         | RBSD-031 |
| - CHOICE Downlink RLC mode                                        | UM RLC                                                                                                         |         | RBSD-032 |
| - DL UM RLC LI size                                               | Selected with DL UM RLC data size                                                                              | Rel-5   | RBSD-033 |
| - One sided RLC re-establishment                                  | FALSE                                                                                                          | Rel-5   | RBSD-034 |
| - RB mapping info                                                 |                                                                                                                |         | RBSD-035 |
| - Information for each multiplexing option                        | 1 RBMuxOptions                                                                                                 |         | RBSD-036 |
| - RLC logical channel mapping indicator                           | Not Present                                                                                                    |         | RBSD-037 |
| - Downlink RLC logical channel info                               |                                                                                                                |         | RBSD-038 |
| - Number of downlink RLC logical channels                         | 1                                                                                                              |         | RBSD-039 |
| - Downlink transport channel type                                 | HS-DSCH                                                                                                        |         | RBSD-040 |
| - DL DCH Transport channel identity                               | Not Present                                                                                                    |         | RBSD-041 |
| - DL DSCH Transport channel identity                              | Not Present                                                                                                    |         | RBSD-042 |
| - CHOICE DL MAC header type                                       | MAC-ehs                                                                                                        | Rel-7   | RBSD-043 |
| - DL HS-DSCH MAC-ehs Queue Id                                     | 0                                                                                                              |         | RBSD-044 |
| - Logical channel identity                                        | 1                                                                                                              |         | RBSD-045 |
| RB information to reconfigure list                                | Not Present                                                                                                    | Rel-6   | RBSD-046 |
| RB information to be affected list                                | Not Present                                                                                                    |         | RBSD-047 |
| Downlink counter synchronization info                             | Not Present                                                                                                    |         | RBSD-048 |
| PDCP ROHC target mode                                             | Not Present                                                                                                    | Rel-5   | RBSD-049 |
| UL Transport channel information for all transport channels       |                                                                                                                |         | RBSD-050 |
| - PRACH TFCS                                                      | Not Present                                                                                                    |         | RBSD-051 |
| - CHOICE mode                                                     | FDD                                                                                                            |         | RBSD-052 |
| - TFC subset                                                      | Not Present                                                                                                    |         | RBSD-053 |
| - UL DCH TFCS                                                     |                                                                                                                |         | RBSD-054 |
| - CHOICE TFCI signalling                                          | Normal                                                                                                         |         | RBSD-055 |
| - TFCI Field 1 information                                        |                                                                                                                |         | RBSD-056 |
| - CHOICE TFCS representation                                      | Complete reconfiguration                                                                                       |         | RBSD-057 |
| - TFCS complete reconfigure information                           |                                                                                                                |         | RBSD-058 |
| - CHOICE CTFC Size                                                | 2 bit CTFC                                                                                                     |         | RBSD-059 |
| - CTFC information                                                | 4 TFCS                                                                                                         |         | RBSD-060 |
| - CTFC                                                            | Reference to clause TS 34.121 clause C.2.1<br>Parameter Set                                                    |         | RBSD-061 |
| - Power offset information                                        |                                                                                                                |         | RBSD-062 |
| - CHOICE Gain Factors                                             | Computed Gain Factors(The last TFC is set to<br>Signalled Gain Factors)                                        |         | RBSD-063 |
| - Gain factor $\beta_c$                                           | 8<br>(Not Present if the CHOICE Gain Factors is set to<br>Computed Gain Factors)                               |         | RBSD-064 |
| - Gain factor $\beta_d$                                           | 15<br>(Not Present if the CHOICE Gain Factors is set to<br>Computed Gain Factors)                              |         | RBSD-065 |
| - Reference TFC ID                                                | 0                                                                                                              |         | RBSD-066 |
| - CHOICE mode                                                     | FDD                                                                                                            |         | RBSD-067 |
| - Power offset P <sub>p-m</sub>                                   | Not Present                                                                                                    |         | RBSD-068 |
| Deleted UL TrCH information list                                  | Not Present                                                                                                    |         | RBSD-069 |
| Added or Reconfigured TrCH information list                       | Not Present                                                                                                    |         | RBSD-070 |
| CHOICE mode                                                       | Not Present                                                                                                    |         | RBSD-071 |
| DL Transport channel information common for all transport channel |                                                                                                                |         | RBSD-072 |
| - SCCPCH TFCS                                                     | Not Present                                                                                                    |         | RBSD-073 |
| - CHOICE mode                                                     | FDD                                                                                                            |         | RBSD-074 |
| - CHOICE DL parameters                                            | Explicit                                                                                                       |         | RBSD-075 |
| - DL DCH TFCS                                                     |                                                                                                                |         | RBSD-076 |
| - CHOICE TFCI Signalling                                          | Normal                                                                                                         |         | RBSD-077 |
| - TFCI Field 1 Information                                        |                                                                                                                |         | RBSD-078 |
| - CHOICE TFCS representation                                      | Complete reconfiguration                                                                                       |         | RBSD-079 |

| Information Element                              | Value/remark                                                                                           | Version           | Index    |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------|----------|
| - TFCS complete reconfigure                      | 2 bit CTFC                                                                                             |                   | RBSD-080 |
| - CHOICE CTFC Size                               | 4 TFCs                                                                                                 |                   | RBSD-081 |
| - CTFC information                               | Reference to clause TS 34.121 clause C.3.1                                                             |                   | RBSD-082 |
| - CTFC                                           | Parameter Set                                                                                          |                   | RBSD-083 |
| - Power offset information                       | Not Present                                                                                            |                   | RBSD-084 |
| Deleted DL TrCH information                      | Not Present                                                                                            |                   | RBSD-085 |
| Added or Reconfigured DL TrCH information list   | 1 TrCHs added                                                                                          |                   | RBSD-086 |
| - Added or Reconfigured DL TrCH information      | (HS-DSCH for DTCH)                                                                                     |                   | RBSD-087 |
| - Downlink transport channel type                | HS-DSCH                                                                                                | Rel-5             | RBSD-088 |
| - DL Transport channel identity                  | Not Present                                                                                            |                   | RBSD-089 |
| - CHOICE DL parameters                           | HS-DSCH                                                                                                |                   | RBSD-090 |
| - HARQ Info                                      |                                                                                                        | Rel-5             | RBSD-091 |
| - Number of Processes                            | Reference to TS34.121 [2] Annex C Fixed Reference Channels                                             |                   | RBSD-092 |
| - CHOICE <i>Memory Partitioning</i>              | Explicit                                                                                               |                   | RBSD-093 |
| - Memory size                                    | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of HARQ Processes".       |                   | RBSD-094 |
| - Process Memory Size                            | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". |                   | RBSD-095 |
| - Additional memory sizes for MIMO               | Not Present                                                                                            | Rel-7             | RBSD-096 |
| - CHOICE DL MAC header type                      | MAC-ehs                                                                                                | Rel-7             | RBSD-097 |
| - Added or reconfigured MAC-ehs reordering queue |                                                                                                        |                   | RBSD-098 |
| - MAC-ehs queue to add or reconfigure list       | (one queue)                                                                                            | Rel-7             | RBSD-099 |
| - MAC-ehs queue Id                               | 0                                                                                                      |                   | RBSD-100 |
| - T1                                             | 50                                                                                                     |                   | RBSD-101 |
| - Treset                                         | Not Present                                                                                            |                   | RBSD-102 |
| - MAC-ehs window size                            | 32                                                                                                     |                   | RBSD-103 |
| - DCH quality target                             | Not present                                                                                            |                   | RBSD-108 |
| Frequency info                                   | Not Present                                                                                            |                   | RBSD-109 |
| Multi-frequency Info                             | Not present                                                                                            | Rel-7             | RBSD-110 |
| DTX-DRX timing information                       | Not present                                                                                            | Rel-7             | RBSD-111 |
| DRX Information                                  | Not present                                                                                            | Rel-7             | RBSD-112 |
| HS-SCCH less Information                         | Not present                                                                                            | Rel-7             | RBSD-113 |
| MIMO parameters                                  | Not present                                                                                            | Rel-7             | RBSD-114 |
| Maximum allowed UL TX power                      | 33dBm                                                                                                  |                   | RBSD-115 |
| CHOICE channel requirement                       | Uplink DPCH info                                                                                       | Rel-5 and earlier | RBSD-116 |
| Uplink DPCH info                                 |                                                                                                        | Rel-6             | RBSD-117 |
| - Uplink DPCH power control info                 |                                                                                                        |                   | RBSD-118 |
| - CHOICE mode                                    | FDD                                                                                                    |                   | RBSD-119 |
| - DPCCH power offset                             | -40 (-80dB) IE value will have no effect on the UE UL power when closed loop power control is active   |                   | RBSD-120 |
| - PC Preamble                                    | 1 frame                                                                                                |                   | RBSD-121 |
| - SRB delay                                      | 7 frames                                                                                               |                   | RBSD-122 |
| - Power Control Algorithm                        | Algorithm1                                                                                             |                   | RBSD-123 |
| - TPC step size                                  | 0 (1dB)                                                                                                |                   | RBSD-124 |
| - $\Delta_{ACK}$                                 | 3                                                                                                      | Rel-5             | RBSD-125 |
| - $\Delta_{NACK}$                                | 3                                                                                                      | Rel-5             | RBSD-126 |
| - Ack-Nack repetition factor                     | 1                                                                                                      | Rel-5             | RBSD-127 |
| - CHOICE mode                                    | FDD                                                                                                    |                   | RBSD-128 |
| - Scrambling code type                           | Long                                                                                                   |                   | RBSD-129 |
| - Scrambling code number                         | 0 (0 to 16777215)                                                                                      |                   | RBSD-130 |
| - Number of DPDCH                                | Not Present (1)                                                                                        |                   | RBSD-131 |
| - spreading factor                               | 64                                                                                                     |                   | RBSD-132 |
| - TFCI existence                                 | TRUE                                                                                                   |                   | RBSD-133 |
| - Number of FBI bit                              | Not Present(0)                                                                                         |                   | RBSD-134 |
| - Puncturing Limit                               | 1                                                                                                      |                   | RBSD-135 |
| E-DCH Info                                       | Not Present                                                                                            | Rel-6             | RBSD-136 |
| Downlink HS-PDSCH Information                    |                                                                                                        |                   | RBSD-137 |
| - HS-SCCH Info                                   |                                                                                                        |                   | RBSD-138 |
| - CHOICE mode                                    | FDD                                                                                                    |                   | RBSD-139 |
| - DL Scrambling Code                             |                                                                                                        |                   | RBSD-140 |
| - HS-SCCH Channelisation Code Information        |                                                                                                        |                   | RBSD-141 |

| Information Element                             | Value/remark                                                                  | Version | Index     |
|-------------------------------------------------|-------------------------------------------------------------------------------|---------|-----------|
| - HS-SCCH Channelisation Code                   | 2                                                                             |         | RBSD-142  |
| - HS-SCCH Channelisation Code                   | 3                                                                             |         | RBSD-143  |
| - Measurement Feedback Info                     |                                                                               |         | RBSD-146  |
| - CHOICE mode                                   | FDD                                                                           |         | RBSD-147  |
| - Measurement Power Offset                      | 6 dB                                                                          | Rel-5   | RBSD-148  |
| - CQI Feedback cycle, k                         | 2 ms                                                                          | Rel-5   | RBSD-149  |
| - CQI repetition factor                         | 1                                                                             | Rel-5   | RBSD-150  |
| - $\Delta_{CQI}$                                | 5 (corresponds to 0dB in relative power offset)                               | Rel-5   | RBSD-151  |
| - CHOICE mode                                   | FDD                                                                           |         | RBSD-152  |
| - Downlink 64QAM configured                     | Not Present                                                                   | Rel-7   | RBSD-153  |
| - HS-DSCH TB size table                         | Not Present                                                                   | Rel-7   | RBSD-153b |
| Downlink information common for all radio links | Not Present                                                                   |         | RBSD-154  |
| Downlink information per radio link list        |                                                                               |         | RBSD-155  |
| - Downlink information for each radio link      |                                                                               |         | RBSD-156  |
| - CHOICE mode                                   | FDD                                                                           |         | RBSD-157  |
| - Primary CPICH info                            |                                                                               |         | RBSD-158  |
| - Primary scrambling code                       | Reference to clause 6.1 "Default settings (FDD)"                              |         | RBSD-159  |
| - Serving HS-DSCH radio link indicator          | TRUE                                                                          | Rel-5   | RBSD-160  |
| - Downlink DPCH info for each RL                |                                                                               |         | RBSD-161  |
| - CHOICE mode                                   | FDD                                                                           |         | RBSD-162  |
| - Primary CPICH usage for channel estimation    | Primary CPICH may be used                                                     |         | RBSD-163  |
| - DPCH frame offset                             | Set to value Default DPCH Offset Value (as currently stored in SS) mod 38 400 |         | RBSD-164  |
| - Secondary CPICH info                          | Not Present                                                                   |         | RBSD-165  |
| - DL channelisation code                        |                                                                               |         | RBSD-166  |
| - Secondary scrambling code                     | Not present                                                                   |         | RBSD-167  |
| - Spreading factor                              | 128                                                                           |         | RBSD-168  |
| - Code number                                   | 96                                                                            |         | RBSD-169  |
| - Scrambling code change                        | No change                                                                     |         | RBSD-170  |
| - TPC combination index                         | 0                                                                             |         | RBSD-171  |
| - Closed loop timing adjustment mode            | Not Present                                                                   |         | RBSD-172  |
| Downlink secondary cell info FDD                |                                                                               | Rel-8   | RBSD-173  |
| - CHOICE Configuration info                     | New configuration                                                             |         | RBSD-174  |
| - New H-RNTI                                    | '1010 1010 1010 1010'                                                         |         | RBSD-175  |
| - Downlink 64QAM configured                     | Not Present                                                                   |         | RBSD-176  |
| - HS-DSCH TB size table                         | Not Present                                                                   |         | RBSD-177  |
| - Primary CPICH info                            |                                                                               |         | RBSD-178  |
| - Primary scrambling code                       | Ref. to the Default setting in clause 6.1 (FDD)                               |         | RBSD-179  |
| - DL Scrambling Code                            | Not Present                                                                   |         | RBSD-180  |
| - HS-SCCH Channelisation Code Information       |                                                                               |         | RBSD-181  |
| - HS-SCCH Channelisation Code                   | 2                                                                             |         | RBSD-182  |
| - HS-SCCH Channelisation Code                   | 3                                                                             |         | RBSD-183  |
| - Measurement Power Offset                      | 6 dB                                                                          |         | RBSD-184  |
| - UARFCN downlink (Nd)                          | Reference to clause 5.1 Test frequencies                                      |         | RBSD-185  |
| MBMS PL Service Restriction Information         | Not Present                                                                   | Rel-6   | RBSD-186  |

Contents of RADIO BEARER SETUP message: AM or UM (DC-HSUPA)

| Information Element                        | Condition | Value/remark                                                                                                                                                       | Version            | Index    |
|--------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Message Type                               |           |                                                                                                                                                                    |                    | RBSE-001 |
| RRC transaction identifier                 |           | Arbitrarily selects an integer between 0 and 3                                                                                                                     |                    | RBSE-002 |
| Integrity check info                       |           |                                                                                                                                                                    |                    | RBSE-003 |
| - message authentication code              |           | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                    | RBSE-004 |
| - RRC message sequence number              |           | SS provides the value of this IE, from its internal counter.                                                                                                       |                    | RBSE-005 |
| Integrity protection mode info             |           | Not Present                                                                                                                                                        |                    | RBSE-006 |
| Ciphering mode info                        |           | Not Present                                                                                                                                                        |                    | RBSE-007 |
| New U-RNTI                                 |           | Not Present                                                                                                                                                        |                    | RBSE-008 |
| New C-RNTI                                 |           | Not Present                                                                                                                                                        |                    | RBSE-009 |
| New DSCH-RNTI                              |           | Not Present                                                                                                                                                        | R99 and Rel-4 only | RBSE-010 |
| New H-RNTI                                 |           | '1010 1010 1010 1010'                                                                                                                                              | Rel-5              | RBSE-011 |
| New Primary E-RNTI                         |           | '1010 1010 1010 1010'                                                                                                                                              | Rel-6              | RBSE-012 |
| New Secondary E-RNTI                       |           | Not Present                                                                                                                                                        | Rel-6              | RBSE-013 |
| RRC State indicator                        |           | CELL_DCH                                                                                                                                                           |                    | RBSE-014 |
| UTRAN DRX cycle length coefficient         |           | Not Present                                                                                                                                                        |                    | RBSE-015 |
| CN information info                        |           | Not Present                                                                                                                                                        |                    | RBSE-016 |
| URA identity                               |           | Not Present                                                                                                                                                        |                    | RBSE-017 |
| CHOICE specification mode                  |           | Complete specification                                                                                                                                             | Rel-6              | RBSE-018 |
| - Signalling RB information to setup       |           | Not Present                                                                                                                                                        |                    | RBSE-019 |
| - RAB information for setup list           |           |                                                                                                                                                                    |                    | RBSE-020 |
| - RAB information for setup                |           |                                                                                                                                                                    |                    | RBSE-021 |
| - RAB info                                 |           | (high-speed UM DTCH for PS domain)                                                                                                                                 |                    | RBSE-022 |
| - RAB identity                             |           | 0000 0110B                                                                                                                                                         |                    | RBSE-023 |
|                                            |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.                                                                   |                    |          |
| - CN domain identity                       |           | PS domain                                                                                                                                                          |                    | RBSE-024 |
| - NAS Synchronization Indicator            |           | Not Present                                                                                                                                                        |                    | RBSE-025 |
| - Re-establishment timer                   |           | useT315                                                                                                                                                            |                    | RBSE-026 |
| - RB information to setup                  |           |                                                                                                                                                                    |                    | RBSE-027 |
| - RB identity                              |           | 25                                                                                                                                                                 |                    | RBSE-028 |
| - PDCP info                                |           | Not present                                                                                                                                                        |                    | RBSE-029 |
| - CHOICE RLC info type                     |           | RLC info                                                                                                                                                           |                    | RBSE-030 |
| - CHOICE Uplink RLC mode                   |           | UM RLC                                                                                                                                                             |                    | RBSE-031 |
| - Transmission RLC discard                 |           | Not present                                                                                                                                                        |                    | RBSE-032 |
| - CHOICE Downlink RLC mode                 |           | UM RLC                                                                                                                                                             |                    | RBSE-033 |
| - DL UM RLC LI size                        |           | Selected with DL UM RLC data size                                                                                                                                  | Rel-5              | RBSE-034 |
| - DL Reception Window Size                 |           | Not present                                                                                                                                                        | Rel-6              | RBSE-035 |
| - One sided RLC re-establishment           |           | FALSE                                                                                                                                                              |                    | RBSE-036 |
| - Alternative E-bit interpretation         |           | Not present                                                                                                                                                        | Rel-6              | RBSE-037 |
| - RB mapping info                          |           |                                                                                                                                                                    |                    | RBSE-038 |
| - Information for each multiplexing option |           | 1 RBMuxOptions                                                                                                                                                     |                    | RBSE-039 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                                                                                                        |                    | RBSE-040 |
| - Number of uplink RLC logical channels    |           | 1                                                                                                                                                                  |                    | RBSE-041 |
| - Uplink transport channel type            |           | E-DCH                                                                                                                                                              |                    | RBSE-042 |
| - Logical channel identity                 |           | 7                                                                                                                                                                  |                    | RBSE-043 |
| - E-DCH MAC-d flow identity                |           | 2                                                                                                                                                                  |                    | RBSE-044 |
| - DDI                                      |           | 5                                                                                                                                                                  |                    | RBSE-045 |
| - RLC PDU size list                        |           | 1 RLC PDU size                                                                                                                                                     |                    | RBSE-046 |
| - RLC PDU size                             |           | 336 bits                                                                                                                                                           |                    | RBSE-047 |
| - Include in scheduling info               |           | TRUE                                                                                                                                                               |                    | RBSE-048 |
| - MAC logical channel priority             |           | 8                                                                                                                                                                  |                    | RBSE-049 |
| - Downlink RLC logical channel info        |           |                                                                                                                                                                    |                    | RBSE-050 |

| Information Element                        | Condition | Value/remark                      | Version | Index    |
|--------------------------------------------|-----------|-----------------------------------|---------|----------|
| - Number of downlink RLC logical channels  |           | 1                                 |         | RBSE-051 |
| - Downlink transport channel type          |           | HS-DSCH                           |         | RBSE-052 |
| - DL DCH Transport channel identity        |           | Not Present                       |         | RBSE-053 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBSE-054 |
| - CHOICE DL MAC header type                |           | MAC-ehs                           | Rel-7   | RBSE-055 |
| - DL HS-DSCH MAC-d flow identity           |           | 0                                 |         | RBSE-056 |
| - Logical channel identity                 |           | Not Present                       |         | RBSE-057 |
| RB information to reconfigure list         |           | Not Present                       | Rel-6   | RBSE-058 |
| RB information to be affected              |           |                                   |         | RBSE-059 |
| - RB identity                              |           | 1 (UM DCCH for RRC)               |         | RBSE-060 |
| - RB mapping info                          |           |                                   |         | RBSE-061 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBSE-062 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBSE-063 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBSE-064 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBSE-065 |
| - Logical channel identity                 |           | 1                                 |         | RBSE-066 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBSE-067 |
| - DDI                                      |           | 1                                 |         | RBSE-068 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBSE-069 |
| - RLC PDU size                             |           | 96 bits                           |         | RBSE-070 |
| - Include in scheduling info               |           | FALSE                             |         | RBSE-071 |
| - MAC logical channel priority             |           | 1                                 |         | RBSE-072 |
| - Downlink RLC logical channel info        |           |                                   |         | RBSE-073 |
| - Number of RLC logical channels           |           | 1                                 |         | RBSE-074 |
| - Downlink transport channel type          |           | DCH                               |         | RBSE-075 |
| - DL DCH Transport channel identity        |           | 10                                |         | RBSE-076 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBSE-077 |
| - Logical channel identity                 |           | 1                                 |         | RBSE-078 |
| - RB identity                              |           | 2 (AM DCCH for RRC)               |         | RBSE-079 |
| - RB mapping info                          |           |                                   |         | RBSE-080 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBSE-081 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBSE-082 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBSE-083 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBSE-084 |
| - Logical channel identity                 |           | 2                                 |         | RBSE-085 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBSE-086 |
| - DDI                                      |           | 2                                 |         | RBSE-087 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBSE-088 |
| - RLC PDU size                             |           | 96 bits                           |         | RBSE-089 |
| - Include in scheduling info               |           | FALSE                             |         | RBSE-090 |
| - MAC logical channel priority             |           | 2                                 |         | RBSE-091 |
| - Downlink RLC logical channel info        |           |                                   |         | RBSE-092 |
| - Number of RLC logical channels           |           | 1                                 |         | RBSE-093 |
| - Downlink transport channel type          |           | DCH                               |         | RBSE-094 |
| - DL DCH Transport channel identity        |           | 10                                |         | RBSE-095 |
| - DL DSCH Transport channel identity       |           | Not Present                       |         | RBSE-096 |
| - Logical channel identity                 |           | 2                                 |         | RBSE-097 |
| - RB identity                              |           | 3 (AM DCCH for NAS High Priority) |         | RBSE-098 |
| - RB mapping info                          |           |                                   |         | RBSE-099 |
| - Information for each multiplexing option |           | 1 RBMuxOption                     |         | RBSE-100 |
| - RLC logical channel mapping indicator    |           | Not Present                       |         | RBSE-101 |
| - Number of uplink RLC logical channels    |           | 1                                 |         | RBSE-102 |
| - Uplink transport channel type            |           | E-DCH                             |         | RBSE-103 |
| - Logical channel identity                 |           | 3                                 |         | RBSE-104 |
| - E-DCH MAC-d flow identity                |           | 1                                 |         | RBSE-105 |
| - DDI                                      |           | 3                                 |         | RBSE-106 |
| - RLC PDU size list                        |           | 1 RLC PDU size                    |         | RBSE-107 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Condition | Value/remark                                                   | Version | Index     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------|---------|-----------|
| <ul style="list-style-type: none"> <li>- RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- Logical channel identity</li> <li>- RB identity</li> <li>- RB mapping info <ul style="list-style-type: none"> <li>- Information for each multiplexing option</li> </ul> </li> <li>- RLC logical channel mapping indicator</li> <li>- Number of uplink RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- Logical channel identity</li> <li>- E-DCH MAC-d flow identity</li> <li>- DDI</li> <li>- RLC PDU size list</li> <li>- RLC PDU size</li> <li>- Include in scheduling info</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- Logical channel identity</li> </ul> |           | 96 bits                                                        |         | RBSE-108  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | FALSE                                                          |         | RBSE-109  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 3                                                              |         | RBSE-110  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                                                |         | RBSE-111  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 1                                                              |         | RBSE-112  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | DCH                                                            |         | RBSE-113  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 10                                                             |         | RBSE-114  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                    |         | RBSE-115  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 3                                                              |         | RBSE-116  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 4 (AM DCCH for NAS Low Priority)                               |         | RBSE-117  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                                                |         | RBSE-118  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 1 RBMuxOption                                                  |         | RBSE-119  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                    |         | RBSE-120  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 1                                                              |         | RBSE-121  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | E-DCH                                                          |         | RBSE-122  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 4                                                              |         | RBSE-123  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 1                                                              |         | RBSE-124  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 4                                                              |         | RBSE-125  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 1 RLC PDU size                                                 |         | RBSE-126  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 96 bits                                                        |         | RBSE-127  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | FALSE                                                          |         | RBSE-128  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 4                                                              |         | RBSE-129  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                                                |         | RBSE-130  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 1                                                              |         | RBSE-131  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | DCH                                                            |         | RBSE-132  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 10                                                             |         | RBSE-133  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                    |         | RBSE-134  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 4                                                              |         | RBSE-135  |
| Downlink counter synchronization info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Not Present                                                    | Rel-5   | RBSE-136  |
| PDCP ROHC target mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Not Present                                                    |         | RBSE-137  |
| UL Transport channel information for all transport channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Not Present                                                    |         | RBSE-138  |
| Deleted UL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                |         | RBSE-139  |
| - Uplink transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | DCH                                                            |         | RBSE-140  |
| - UL transport channel identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 5                                                              |         | RBSE-141  |
| Added or Reconfigured UL TrCH information list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 1 TrCH added                                                   | Rel-8   | RBSE-142  |
| - Added or Reconfigured UL TrCH information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 1 E-DCH added with one DCCH MAC-d flow and one DTCH MAC-d flow |         | RBSE-143  |
| - Uplink transport channel type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | E-DCH                                                          |         | RBSE-144  |
| - CHOICE UL parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | E-DCH                                                          |         | RBSE-145  |
| - UL MAC header type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | MAC-i/is                                                       |         | RBSE-145a |
| - E-DCH Transmission Time Interval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | <u>2ms</u>                                                     |         | RBSE-146  |
| - HARQ info for E-DCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                |         | RBSE-147  |
| - HARQ RV Configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Rv0                                                            |         | RBSE-148  |
| - Added or reconfigured E-DCH MAC-d flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | (for DCCH)                                                     |         | RBSE-149  |
| - E-DCH MAC-d flow identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 1                                                              |         | RBSE-150  |
| - E-DCH MAC-d flow power offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                                              |         | RBSE-151  |
| - E-DCH MAC-d flow maximum number of retransmissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 7                                                              |         | RBSE-152  |
| - E-DCH MAC-d flow multiplexing list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not Present                                                    |         | RBSE-153  |
| - CHOICE transmission grant type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | Non-scheduled grant info                                       |         | RBSE-154  |
| - Max MAC-e PDU contents size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | 114 bits                                                       |         | RBSE-155  |
| - 2 ms non-scheduled transmission grant HARQ process allocation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | Not Present                                                    |         | RBSE-156  |
| - Added or reconfigured E-DCH MAC-d flow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | (for DTCH)                                                     |         | RBSE-157  |
| - E-DCH MAC-d flow identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | 2                                                              |         | RBSE-158  |
| - E-DCH MAC-d flow power offset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 0                                                              |         | RBSE-159  |
| - E-DCH MAC-d flow maximum number of retransmissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | 7                                                              |         | RBSE-160  |
| - E-DCH MAC-d flow multiplexing list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not Present                                                    |         | RBSE-161  |

| Information Element                                                | Condition | Value/remark                                                                                                       | Version            | Index    |
|--------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| - CHOICE transmission grant type                                   |           | Scheduled grant info                                                                                               |                    | RBSE-162 |
| CHOICE <i>mode</i>                                                 |           | Not Present                                                                                                        | R99 and Rel-4 only | RBSE-163 |
| DL Transport channel information common for all transport channels |           | Not Present                                                                                                        |                    | RBSE-164 |
| DL Transport channel information common for all transport channels |           |                                                                                                                    |                    | RBSE-165 |
| - SCCPCH TFCS                                                      |           | Not Present                                                                                                        |                    | RBSE-166 |
| - CHOICE mode                                                      |           | FDD                                                                                                                |                    | RBSE-167 |
| - CHOICE DL parameters                                             |           | Explicit                                                                                                           |                    | RBSE-168 |
| - DL DCH TFCS                                                      |           |                                                                                                                    |                    | RBSE-169 |
| - CHOICE TFCI Signalling                                           |           | Normal                                                                                                             |                    | RBSE-170 |
| - TFCI Field 1 Information                                         |           |                                                                                                                    |                    | RBSE-171 |
| - CHOICE TFCS representation                                       |           | Complete reconfiguration                                                                                           |                    | RBSE-172 |
| - TFCS complete reconfigure                                        |           |                                                                                                                    |                    | RBSE-173 |
| - CHOICE CTFC Size                                                 |           | 2 bit CTFC                                                                                                         |                    | RBSE-174 |
| - CTFC information                                                 |           | 2 TFCS                                                                                                             |                    | RBSE-175 |
| - 2bit CTFC                                                        |           | 0                                                                                                                  |                    | RBSE-176 |
| - Power offset Information                                         |           |                                                                                                                    |                    | RBSE-177 |
| - CHOICE Gain Factors                                              |           | computedGainFactors                                                                                                |                    | RBSE-178 |
| - Reference TFC ID                                                 |           | 0                                                                                                                  |                    | RBSE-179 |
| - Power offset Pp-m                                                |           | Not Present                                                                                                        |                    | RBSE-180 |
| - 2bit CTFC                                                        |           | 1                                                                                                                  |                    | RBSE-181 |
| - Power offset Information                                         |           |                                                                                                                    |                    | RBSE-182 |
| - CHOICE Gain Factors                                              |           | signalledGainFactors                                                                                               |                    | RBSE-183 |
| - CHOICE mode                                                      |           | FDD                                                                                                                |                    | RBSE-184 |
| - Gain factor $\beta_c$                                            |           | 15                                                                                                                 |                    | RBSE-185 |
| - Gain factor $\beta_d$                                            |           | 15                                                                                                                 |                    | RBSE-186 |
| - Reference TFC ID                                                 |           | 0                                                                                                                  |                    | RBSE-187 |
| - CHOICE mode                                                      |           | FDD                                                                                                                |                    | RBSE-188 |
| - Power offset Pp-m                                                |           | Not Present                                                                                                        |                    | RBSE-189 |
| Deleted TrCH information list                                      |           | Not Present                                                                                                        |                    | RBSE-190 |
| Added or Reconfigured TrCH information list                        |           | 1 TrCH added                                                                                                       |                    | RBSE-191 |
| - Added or Reconfigured DL TrCH information                        |           | HS-DSCH for DTCH added                                                                                             |                    | RBSE-192 |
| - Downlink transport channel type                                  |           | HS-DSCH                                                                                                            |                    | RBSE-193 |
| - DL Transport channel identity                                    |           | Not Present                                                                                                        |                    | RBSE-194 |
| - CHOICE DL parameters                                             |           | HS-DSCH                                                                                                            |                    | RBSE-195 |
| - HARQ Info                                                        |           |                                                                                                                    |                    | RBSE-196 |
| - Number of Processes                                              |           | Reference to TS34.121 [2] Annex C Fixed Reference Channels                                                         |                    | RBSE-197 |
| - CHOICE <i>Memory Partitioning</i>                                |           | Explicit                                                                                                           |                    | RBSE-198 |
| - Memory size                                                      |           | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of HARQ Processes".                   |                    | RBSE-199 |
| - Process Memory Size                                              |           | Reference to TS34.121 [2] Annex C Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". Not Present | Rel-7              | RBSE-200 |
| - Additional memory sizes for MIMO                                 |           | Not Present                                                                                                        | Rel-7              | RBSE-201 |
| - CHOICE DL MAC header type                                        |           | MAC-hs                                                                                                             | Rel-7              | RBSE-202 |
| - Added or reconfigured MAC-d flow                                 |           |                                                                                                                    |                    | RBSE-203 |
| - MAC-hs queue to add or reconfigure list                          |           | (one queue)                                                                                                        |                    | RBSE-204 |
| - MAC-hs queue Id                                                  |           | 0                                                                                                                  |                    | RBSE-205 |
| - MAC-d Flow Identity                                              |           | 0                                                                                                                  |                    | RBSE-206 |
| - T1                                                               |           | 50                                                                                                                 |                    | RBSE-207 |
| - MAC-hs window size                                               |           | 16                                                                                                                 |                    | RBSE-208 |
| - MAC-d PDU size Info                                              |           |                                                                                                                    |                    | RBSE-209 |
| - MAC-d PDU size                                                   |           | Reference to TS34.121 [2] Annex C Fixed Reference Channels                                                         |                    | RBSE-210 |
| - MAC-d PDU size index                                             |           | 0                                                                                                                  |                    | RBSE-211 |
| - MAC-hs queue to delete list                                      |           | Not present                                                                                                        |                    | RBSE-212 |
| - DCH quality target                                               |           | Not present                                                                                                        |                    | RBSE-213 |

| Information Element                          | Condition | Value/remark      | Version           | Index     |
|----------------------------------------------|-----------|-------------------|-------------------|-----------|
| Frequency info                               |           | Not present       |                   | RBSE-214  |
| Multi-frequency Info                         |           | Not present       | Rel-7             | RBSE-215  |
| DTX-DRX timing information                   |           | Not present       | Rel-7             | RBSE-216  |
| DRX Information                              |           | Not present       | Rel-7             | RBSE-217  |
| HS-SCCH less Information                     |           | Not present       | Rel-7             | RBSE-218  |
| MIMO parameters                              |           | Not present       | Rel-7             | RBSE-219  |
| Maximum allowed UL TX power                  |           | 33dBm             |                   | RBSE-220  |
| CHOICE channel requirement                   |           | Uplink DPCH info  | Rel-5 and earlier | RBSE-221  |
| Uplink DPCH info                             |           |                   | Rel-6             | RBSE-222  |
| - Uplink DPCH power control info             |           |                   |                   | RBSE-223  |
| - DPCCH power offset                         |           | -40 (-80dB)       |                   | RBSE-224  |
| - PC Preamble                                |           | 1 frame           |                   | RBSE-225  |
| - SRB delay                                  |           | 7 frames          |                   | RBSE-226  |
| - Power Control Algorithm                    |           | Algorithm1        |                   | RBSE-227  |
| - TPC step size                              |           | 0 (1dB)           |                   | RBSE-228  |
| - $\Delta_{ACK}$                             | A1        | 0                 |                   | RBSE-229  |
| - $\Delta_{ACK}$                             | A2        | 6                 |                   | RBSE-229a |
| - $\Delta_{NACK}$                            | A1        | 0                 |                   | RBSE-230  |
| - $\Delta_{NACK}$                            | A2        | 6                 |                   | RBSE-230a |
| - Ack-Nack repetition factor                 |           | 1                 |                   | RBSE-231  |
| - HARQ_preamble_mode                         |           | 0                 |                   | RBSE-232  |
| - Scrambling code type                       |           | Long              |                   | RBSE-233  |
| - Scrambling code number                     |           | 0 (0 to 16777215) |                   | RBSE-234  |
| - Number of DPDCH                            |           | 0                 |                   | RBSE-235  |
| - spreading factor                           |           | Not present       |                   | RBSE-236  |
| - TFCI existence                             |           | FALSE             |                   | RBSE-237  |
| - Number of FBI bit                          |           | Not present       |                   | RBSE-238  |
| - Puncturing Limit                           |           | Not present       |                   | RBSE-239  |
| E-DCH info                                   |           |                   | Rel-6             | RBSE-240  |
| - MAC-es/e reset indicator                   |           | TRUE              |                   | RBSE-241  |
| - E-DPCCH info                               |           |                   |                   | RBSE-242  |
| - E-DPCCH/DPCCH power offset                 |           | 0                 |                   | RBSE-243  |
| - Happy bit delay condition                  |           | 100 ms            |                   | RBSE-244  |
| - E-TFC Boost Info                           |           |                   |                   | RBSE-244a |
| - E-TFCI boost                               |           | 67                | Rel-7             | RBSE-245  |
| - Delta T2TP                                 |           | 5 (15 dB)         |                   | RBSE-245a |
| - E-DPDCH power interpolation                |           | Not present       | Rel-7             | RBSE-246  |
| - E-DPDCH info                               |           |                   |                   | RBSE-247  |
| - E-TFCI table index                         | A1        | 0                 |                   | RBSE-248  |
| - E-TFCI table index                         | A2        | 1                 |                   | RBSE-248a |
| - E-DCH minimum set E-TFCI                   |           | 67                |                   | RBSE-249  |
| - Reference E-TFCIs                          |           | 2 E-TFCI          |                   | RBSE-250  |
| - Reference E-TFCI                           |           | 1                 |                   | RBSE-251  |
| - Reference E-TFCI PO                        |           | 12                |                   | RBSE-252  |
| - Reference E-TFCI                           |           | 68                |                   | RBSE-252a |
| - Reference E-TFCI PO                        |           | 19                |                   | RBSE-252b |
| - Minimum reduced E-DPDCH gain factor.       | A1        | 30/15             | Rel-8             | RBSE-252c |
| - Minimum reduced E-DPDCH gain factor.       | A2        | 84/15             | Rel-8             | RBSE-252d |
| - Maximum channelisation codes               |           | 2sf2and2sf4       |                   | RBSE-253  |
| - PLnon-max                                  |           | 0.84              |                   | RBSE-254  |
| - Scheduling Information Configuration       |           |                   |                   | RBSE-255  |
| - Periodicity for Scheduling Info – no grant |           | Not present       |                   | RBSE-256  |
| - Periodicity for Scheduling Info – grant    |           | Not present       |                   | RBSE-257  |
| - Power Offset for Scheduling Info           |           | 0                 |                   | RBSE-258  |
| - 3-Index-Step Threshold                     |           | Not present       |                   | RBSE-259  |
| - 2-Index-Step Threshold                     |           | Not present       |                   | RBSE-260  |
| - Scheduled Transmission configuration       |           |                   |                   | RBSE-261  |
| - 2ms scheduled transmission grant           |           | Not present       |                   | RBSE-262  |
| HARQ process allocation                      |           |                   |                   |           |
| - Serving Grant                              |           | Not present       |                   | RBSE-263  |



| Information Element                                                  | Condition | Value/remark                                                          | Version            | Index     |
|----------------------------------------------------------------------|-----------|-----------------------------------------------------------------------|--------------------|-----------|
| - UL 16QAM settings                                                  | A1        | Not present                                                           | Rel-7              | RBSE-264  |
| - UL 16QAM settings                                                  | A2        |                                                                       | Rel-7              | RBSE-264a |
| - BetaEd gain E-AGCH table selection                                 |           | 1                                                                     |                    | RBSE-264b |
| CHOICE Mode                                                          |           | FDD                                                                   | R99 and Rel-4 only | RBSE-265  |
| - Downlink PDSCH information                                         |           | Not Present                                                           | R99 and Rel-4 only | RBSE-266  |
| Uplink secondary cell info FDD                                       |           |                                                                       | Rel-9              | RBSE-267  |
| - Secondary serving E-DCH cell info                                  |           |                                                                       |                    | RBSE-268  |
| - Primary E-RNTI                                                     |           | '1010 1010 1010 1010'                                                 |                    | RBSE-269  |
| - Secondary E-RNTI                                                   |           | Not Present                                                           |                    | RBSE-270  |
| - Secondary E-DCH info common                                        |           |                                                                       |                    | RBSE-271  |
| - Frequency info                                                     |           |                                                                       |                    | RBSE-272  |
| - UARFCN uplink (Nu)                                                 |           | Reference to clause 5.1 Test frequencies                              |                    | RBSE-273  |
| - UARFCN downlink (Nd)                                               |           | Reference to clause 5.1 Test frequencies                              |                    | RBSE-274  |
| - Scrambling code type                                               |           | Short                                                                 |                    | RBSE-275  |
| - Scrambling code number                                             |           | 0                                                                     |                    | RBSE-276  |
| - 2ms scheduled transmission grant                                   |           | Not Present                                                           |                    | RBSE-277  |
| HARQ process allocation                                              |           |                                                                       |                    |           |
| - Serving Grant                                                      |           |                                                                       |                    | RBSE-278  |
| - Primary/Secondary Grant Selector                                   |           | Primary                                                               |                    | RBSE-279  |
| - Minimum reduced E-DPDCH gain factor                                | A1        | 30/15                                                                 |                    | RBSE-280  |
| - Minimum reduced E-DPDCH gain factor                                | A2        | 84/15                                                                 |                    | RBSE-280a |
| - E-DCH minimum set E-TFCI                                           |           | 67                                                                    |                    | RBSE-281  |
| - DPCCH Power offset for secondary UL frequency                      |           | 0 dB                                                                  |                    | RBSE-282  |
| - PC Preamble                                                        |           | 0 frame                                                               |                    | RBSE-283  |
| - Downlink information per radio link list on secondary UL frequency |           |                                                                       |                    | RBSE-284  |
| - Downlink information for each radio link on secondary UL frequency |           | 1                                                                     |                    | RBSE-285  |
| - Primary CPICH info                                                 |           |                                                                       |                    | RBSE-286  |
| - Primary scrambling code                                            |           | Ref. to the Default setting in clause 6.1 (FDD)                       |                    | RBSE-287  |
| - Cell ID                                                            |           | Not Present                                                           |                    | RBSE-288  |
| - Downlink F-DPCH info for each RL on secondary UL frequency         |           |                                                                       |                    | RBSE-289  |
| - Downlink F-DPCH info for each RL                                   |           |                                                                       |                    | RBSE-290  |
| - Primary CPICH usage for channel estimate                           |           |                                                                       |                    | RBSE-291  |
| - F-DPCH frame offset                                                |           | Set to value Default DPCH Offset Value (as currently stored in SS)    |                    | RBSE-292  |
| - F-DPCH slot format                                                 |           | mod 38 400<br>3 if UE supports enhanced F-DPCH, otherwise Not Present |                    | RBSE-293  |
| - Secondary CPICH info                                               |           | Not Present                                                           |                    | RBSE-294  |
| - Secondary scrambling code                                          |           | Not Present                                                           |                    | RBSE-295  |
| - Code number                                                        |           | 12                                                                    |                    | RBSE-296  |
| - TPC combination index                                              |           | 0                                                                     |                    | RBSE-297  |
| - STTD                                                               |           | FALSE                                                                 |                    | RBSE-298  |
| - E-AGCH Info                                                        |           |                                                                       |                    | RBSE-299  |
| - E-AGCH Channelisation Code                                         |           | 10                                                                    |                    | RBSE-300  |
| - E-HICH Info                                                        |           |                                                                       |                    | RBSE-301  |
| - Channelisation Code                                                |           | 4                                                                     |                    | RBSE-302  |
| - Signature Sequence                                                 |           | 1                                                                     |                    | RBSE-303  |
| - E-RGCH Info                                                        |           |                                                                       |                    | RBSE-304  |
| - Signature Sequence                                                 |           | 0                                                                     |                    | RBSE-305  |
| - RG combination index                                               |           | 0                                                                     |                    | RBSE-306  |
| Downlink HS-PDSCH Information                                        |           |                                                                       |                    | RBSE-307  |
| - HS-SCCH Info                                                       |           |                                                                       |                    | RBSE-308  |
| - CHOICE mode                                                        |           | FDD                                                                   |                    | RBSE-309  |
| - DL Scrambling Code                                                 |           | Not present                                                           |                    | RBSE-310  |
| - HS-SCCH Channelisation Code                                        |           |                                                                       |                    | RBSE-311  |
| Information                                                          |           |                                                                       |                    |           |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Condition | Value/remark                                                       | Version                                  | Index     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------|------------------------------------------|-----------|
| <ul style="list-style-type: none"> <li>- HS-SCCH Channelisation Code</li> <li>- HS-SCCH Channelisation Code</li> <li>- Measurement Feedback Info</li> <li>- CHOICE mode</li> <li>- POHsdsch</li> <li>- CQI Feedback cycle, k</li> <li>- CQI repetition factor</li> <li>- <math>\Delta_{CQI}</math></li> <li>- <math>\Delta_{CQI}</math></li> <li>- CHOICE mode</li> <li>- Downlink 64QAM configured</li> </ul>                                                                                                                                                                                                 | A1<br>A2  | 2                                                                  | Rel-7                                    | RBSE-312  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 3                                                                  |                                          | RBSE-313  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | FDD                                                                |                                          | RBSE-314  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 6 dB                                                               |                                          | RBSE-315  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 2 ms                                                               |                                          | RBSE-316  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 1                                                                  |                                          | RBSE-317  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 0                                                                  |                                          | RBSE-318  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 6                                                                  |                                          | RBSE-319  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | FDD                                                                |                                          | RBSE-319a |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-320  |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-321  |
| Downlink information for each radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                    |                                          | RBSE-322  |
| <ul style="list-style-type: none"> <li>- Downlink information for each radio link</li> <li>- Choice mode</li> <li>- Primary CPICH info</li> <li>- Primary scrambling code</li> <li>- PDSCH with SHO DCH info</li> <li>- PDSCH code mapping</li> <li>- Serving HS-DSCH radio link indicator</li> <li>- Serving E-DCH radio link indicator</li> <li>- Downlink DPCH info for each RL</li> <li>- CHOICE mode</li> <li>- Primary CPICH usage for channel estimation</li> <li>- DPCH frame offset</li> <li>- Secondary CPICH info</li> <li>- DL channelisation code</li> <li>- Secondary scrambling code</li> </ul> |           | FDD                                                                | R99 and Rel-4 only<br>R99 and Rel-4 only | RBSE-324  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Ref. to clause 6.1 "Default settings (FDD)"                        |                                          | RBSE-325  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-326  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-327  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-328  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-329  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | TRUE                                                               |                                          | RBSE-330  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | TRUE                                                               |                                          | RBSE-331  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | FDD                                                                |                                          | RBSE-332  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Primary CPICH may be used                                          |                                          | RBSE-333  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Set to value Default DPCH Offset Value (as currently stored in SS) |                                          | RBSE-334  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | mod 38 400                                                         |                                          | RBSE-335  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-336  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-337  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-338  |
| <ul style="list-style-type: none"> <li>- Spreading factor</li> <li>- Code number</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | 256                                                                |                                          | RBSE-339  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 192                                                                |                                          | RBSE-340  |
| <ul style="list-style-type: none"> <li>- Scrambling code change</li> <li>- TPC combination index</li> <li>- SSdT Cell Identity</li> <li>- Closed loop timing adjustment mode</li> <li>- E-AGCH Info</li> <li>- E-AGCH Channelisation Code</li> <li>- CHOICE E-HICH Information</li> <li>- E-HICH Information</li> <li>- DL Scrambling code</li> <li>- Channelisation code</li> <li>- Signature sequence</li> <li>- CHOICE E-RGCH Information</li> <li>- SCCPCH information for FACH</li> </ul>                                                                                                                 |           | No code change                                                     | R99 and Rel-4 only                       | RBSE-341  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 0                                                                  |                                          | RBSE-342  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-343  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        | Rel-6                                    | RBSE-344  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 14                                                                 |                                          | RBSE-345  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 14                                                                 |                                          | RBSE-346  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present (default is primary)                                   | Rel-6                                    | RBSE-347  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 6                                                                  |                                          | RBSE-348  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | 1                                                                  |                                          | RBSE-349  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        | Rel-6<br>R99 and Rel-4 only              | RBSE-350  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-351  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-352  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        | Rel-8                                    | RBSE-353  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-354  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-355  |
| Downlink secondary cell info FDD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | New configuration                                                  | Rel-8                                    | RBSE-356  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | '1010 1010 1010 1010'                                              |                                          | RBSE-357  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-358  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-359  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Ref. to the Default setting in clause 6.1 (FDD)                    |                                          | RBSE-360  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-361  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | Not Present                                                        |                                          | RBSE-361  |

| Information Element                          | Condition | Value/remark                             | Version | Index    |
|----------------------------------------------|-----------|------------------------------------------|---------|----------|
| - HS-SCCH Channelisation Code<br>Information |           |                                          |         | RBSE-362 |
| - HS-SCCH Channelisation Code                |           | 2                                        |         | RBSE-363 |
| - HS-SCCH Channelisation Code                |           | 3                                        |         | RBSE-364 |
| - Measurement Power Offset                   |           | 6 dB                                     |         | RBSE-365 |
| - UARFCN downlink (Nd)                       |           | Reference to clause 5.1 Test frequencies |         | RBSE-366 |
| MBMS PL Service Restriction Information      |           | Not Present                              | Rel-6   | RBSE-367 |

| Condition | Explanation                                                                                                                                             | Version |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| A1        | This IE is used when test is performed with UL E-DCH reference measurement channel for DC-HSUPA using BPSK as specified in TS 34.121-1 subclause C.2.6  |         |
| A2        | This IE is used when test is performed with UL E-DCH reference measurement channel for DC-HSUPA using 16QAM as specified in TS 34.121-1 subclause C.2.7 |         |

## Contents of RRC CONNECTION RELEASE message: UM

| Information Element           | Value/remark                                                                                                                                                                                                                                                                        | Version    |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Message Type<br>U-RNTI        | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent.                                                                                                                                                        | R99, Rel-4 |
| - SRNC identity               | 0000 0000 0001B                                                                                                                                                                                                                                                                     |            |
| - S-RNTI                      | 0000 0000 0000 0000 0001B                                                                                                                                                                                                                                                           |            |
| CHOICE identity type          | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent.                                                                                                                                                        | Rel-5      |
| - U-RNTI                      |                                                                                                                                                                                                                                                                                     |            |
| - SRNC identity               | 0000 0000 0001B                                                                                                                                                                                                                                                                     |            |
| - S-RNTI                      | 0000 0000 0000 0000 0001B                                                                                                                                                                                                                                                           |            |
| RRC transaction identifier    | Arbitrarily selects an integer between 0 and 3                                                                                                                                                                                                                                      |            |
| Integrity check info          | This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |            |
| - Message authentication code | SS provides the value of this IE, from its internal counter.                                                                                                                                                                                                                        |            |
| - RRC Message sequence number | 2 (for CELL_DCH state). Not Present (for UE in other connected mode states).                                                                                                                                                                                                        |            |
| N308                          |                                                                                                                                                                                                                                                                                     |            |
| Release cause                 | Normal event                                                                                                                                                                                                                                                                        |            |
| Rplmn information             | Not Present                                                                                                                                                                                                                                                                         |            |
| Redirection info              | Not Present                                                                                                                                                                                                                                                                         | Rel-6      |

## Contents of RRC CONNECTION SETUP message: UM

| Information Element                     | Condition | Value/remark                                                                                             | Version | Index    |
|-----------------------------------------|-----------|----------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                            |           |                                                                                                          |         | RCSU-001 |
| Initial UE identity                     |           | Select the same identity as in the IE "Initial UE Identity" in received "RRC CONNECTION REQUEST" message |         | RCSU-002 |
| RRC transaction identifier              |           | Arbitrarily selects an integer between 0 and 3                                                           |         | RCSU-003 |
| Activation time                         |           | Not Present(Now)                                                                                         |         | RCSU-004 |
| New U-RNTI                              |           |                                                                                                          |         | RCSU-005 |
| - SRNC identity                         |           | 0000 0000 0001B                                                                                          |         | RCSU-006 |
| - S-RNTI                                |           | 0000 0000 0000 0000 0001B                                                                                |         | RCSU-007 |
| New C-RNTI                              |           | Not Present                                                                                              |         | RCSU-008 |
| New H-RNTI                              |           | Not Present                                                                                              | Rel-6   | RCSU-009 |
| New Primary E-RNTI                      |           | Not Present                                                                                              | Rel-6   | RCSU-010 |
| New Secondary E-RNTI                    |           | Not Present                                                                                              | Rel-6   | RCSU-011 |
| RRC State Indicator                     |           | CELL_DCH                                                                                                 |         | RCSU-012 |
| UTRAN DRX cycle length coefficient      |           | 9                                                                                                        |         | RCSU-013 |
| Capability update requirement           |           |                                                                                                          |         | RCSU-014 |
| - UE radio access FDD capability update |           | TRUE                                                                                                     |         | RCSU-015 |

| Information Element                                           | Condition | Value/remark                                                     | Version | Index     |
|---------------------------------------------------------------|-----------|------------------------------------------------------------------|---------|-----------|
| requirement                                                   |           |                                                                  |         |           |
| - UE radio access TDD capability update requirement           |           | FALSE                                                            |         | RCSU-016  |
| - UE radio access 3.84 Mcps TDD capability update requirement |           | FALSE                                                            | Rel-4   | RCSU-017  |
| - UE radio access 1.28 Mcps TDD capability update requirement |           | FALSE                                                            | Rel-4   | RCSU-018  |
| - System specific capability update requirement list          |           | 1 entry (for Rel-7 and earlier)<br>2 entry (for Rel-8 and later) |         | RCSU-019  |
| - System specific capability update requirement               |           | GSM                                                              |         | RCSU-019a |
| - System specific capability update requirement               |           | E-UTRA                                                           | Rel-8   | RCSU-019b |
| CHOICE <i>specification mode</i>                              |           | Complete specification                                           | Rel-5   | RCSU-020  |
| - Complete specification                                      |           |                                                                  | Rel-5   | RCSU-021  |
| - Signalling RB information to setup list                     |           | 4 SRBs                                                           |         | RCSU-022  |
| - Signalling RB information to setup                          |           | (UM DCCH for RRC)                                                |         | RCSU-023  |
| - RB identity                                                 |           | Not Present                                                      |         | RCSU-024  |
| - CHOICE RLC info type                                        |           | RLC info                                                         |         | RCSU-025  |
| - CHOICE Uplink RLC mode                                      |           | UM RLC                                                           |         | RCSU-026  |
| - Transmission RLC discard                                    |           | Not Present                                                      |         | RCSU-027  |
| - CHOICE Downlink RLC mode                                    |           | UM RLC                                                           |         | RCSU-028  |
| - DL UM RLC LI size                                           |           | 7 bit                                                            | Rel-6   | RCSU-029  |
| - One sided RLC re-establishment                              |           | FALSE                                                            | Rel-6   | RCSU-030  |
| - RB mapping info                                             |           |                                                                  |         | RCSU-031  |
| - Information for each multiplexing option                    |           | 2 RBMUXOptions                                                   |         | RCSU-032  |
| - RLC logical channel mapping indicator                       |           | Not Present                                                      |         | RCSU-033  |
| - Number of RLC logical channels                              |           | 1                                                                |         | RCSU-034  |
| - Uplink transport channel type                               |           | DCH                                                              |         | RCSU-035  |
| - UL Transport channel identity                               |           | 5                                                                |         | RCSU-036  |
| - Logical channel identity                                    |           | 1                                                                |         | RCSU-037  |
| - CHOICE RLC size list                                        |           | Configured                                                       |         | RCSU-038  |
| - MAC logical channel priority                                |           | 1                                                                |         | RCSU-039  |
| - Downlink RLC logical channel info                           |           |                                                                  |         | RCSU-040  |
| - Number of RLC logical channels                              |           | 1                                                                |         | RCSU-041  |
| - Downlink transport channel type                             |           | DCH                                                              |         | RCSU-042  |
| - DL DCH Transport channel identity                           |           | 10                                                               |         | RCSU-043  |
| - DL DSCH Transport channel identity                          |           | Not Present                                                      |         | RCSU-044  |
| - Logical channel identity                                    |           | 1                                                                |         | RCSU-045  |
| - RLC logical channel mapping indicator                       |           | Not Present                                                      |         | RCSU-046  |
| - Number of RLC logical channels                              |           | 1                                                                |         | RCSU-047  |
| - Uplink transport channel type                               |           | RACH                                                             |         | RCSU-048  |
| - UL Transport channel identity                               |           | Not Present                                                      |         | RCSU-049  |
| - Logical channel identity                                    |           | 1                                                                |         | RCSU-050  |
| - CHOICE RLC size list                                        |           | Explicit List                                                    |         | RCSU-051  |
| - RLC size index                                              |           | Reference to clause 6 Parameter Set                              |         | RCSU-052  |
| - MAC logical channel priority                                |           | 1                                                                |         | RCSU-053  |
| - Downlink RLC logical channel info                           |           |                                                                  |         | RCSU-054  |
| - Number of RLC logical channels                              |           | 1                                                                |         | RCSU-055  |
| - Downlink transport channel type                             |           | FACH                                                             |         | RCSU-056  |
| - DL DCH Transport channel identity                           |           | Not Present                                                      |         | RCSU-057  |
| - DL DSCH Transport channel identity                          |           | Not Present                                                      |         | RCSU-058  |
| - Logical channel identity                                    |           | 1                                                                |         | RCSU-059  |
| - Signalling RB information to setup                          |           | (AM DCCH for RRC)                                                |         | RCSU-060  |
| - RB identity                                                 |           | Not Present                                                      |         | RCSU-061  |
| - CHOICE RLC info type                                        |           |                                                                  |         | RCSU-062  |
| - RLC info                                                    |           |                                                                  |         | RCSU-063  |
| - CHOICE Uplink RLC mode                                      |           | AM RLC                                                           |         | RCSU-064  |
| - Transmission RLC discard                                    |           |                                                                  |         | RCSU-065  |
| - SDU discard mode                                            |           | No Discard                                                       |         | RCSU-066  |
| - MAX_DAT                                                     |           | 15                                                               |         | RCSU-067  |
| - Transmission window size                                    |           | 128                                                              |         | RCSU-068  |
| - Timer_RST                                                   |           | 500                                                              |         | RCSU-069  |
| - Max_RST                                                     |           | 1                                                                |         | RCSU-070  |
| - Polling info                                                |           |                                                                  |         | RCSU-071  |
| - Timer_poll_prohibit                                         |           | 200                                                              |         | RCSU-072  |
| - Timer_poll                                                  |           | 200                                                              |         | RCSU-073  |

| Information Element                        | Condition | Value/remark                        | Version | Index    |
|--------------------------------------------|-----------|-------------------------------------|---------|----------|
| - Poll_PDU                                 |           | Not Present                         |         | RCSU-074 |
| - Poll_SDU                                 |           | 1                                   |         | RCSU-075 |
| - Last transmission PDU poll               |           | TRUE                                |         | RCSU-076 |
| - Last retransmission PDU poll             |           | TRUE                                |         | RCSU-077 |
| - Poll_Windows                             |           | 99                                  |         | RCSU-078 |
| - Timer_poll_periodic                      |           | Not Present                         |         | RCSU-079 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                              |         | RCSU-080 |
| - DL RLC PDU size                          |           | 96 bits                             | Rel-6   | RCSU-081 |
| - DL RLC PDU size                          | A1        | 144 bits                            | Rel-6   | RCSU-082 |
| - In-sequence delivery                     |           | TRUE                                |         | RCSU-083 |
| - Receiving window size                    |           | 128                                 |         | RCSU-084 |
| - Downlink RLC status info                 |           |                                     |         | RCSU-085 |
| - Timer_status_prohibit                    |           | 200                                 |         | RCSU-086 |
| - Timer_EPC                                |           | Not Present                         |         | RCSU-087 |
| - Missing PDU indicator                    |           | TRUE                                |         | RCSU-088 |
| - Timer_STATUS_periodic                    |           | Not Present                         |         | RCSU-089 |
| - RB mapping info                          |           |                                     |         | RCSU-090 |
| - Information for each multiplexing option |           | 2 RBMuxOptions                      |         | RCSU-091 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RCSU-092 |
| - Number of RLC logical channels           |           | 1                                   |         | RCSU-093 |
| - Uplink transport channel type            |           | DCH                                 |         | RCSU-094 |
| - UL Transport channel identity            |           | 5                                   |         | RCSU-095 |
| - Logical channel identity                 |           | 2                                   |         | RCSU-096 |
| - CHOICE RLC size list                     |           | Configured                          |         | RCSU-097 |
| - MAC logical channel priority             |           | 2                                   |         | RCSU-098 |
| - Downlink RLC logical channel info        |           |                                     |         | RCSU-099 |
| - Number of RLC logical channels           |           | 1                                   |         | RCSU-100 |
| - Downlink transport channel type          |           | DCH                                 |         | RCSU-101 |
| - DL DCH Transport channel identity        |           | 10                                  |         | RCSU-102 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RCSU-103 |
| - Logical channel identity                 |           | 2                                   |         | RCSU-104 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RCSU-105 |
| - Number of RLC logical channels           |           | 1                                   |         | RCSU-106 |
| - Uplink transport channel type            |           | RACH                                |         | RCSU-107 |
| - UL Transport channel identity            |           | Not Present                         |         | RCSU-108 |
| - Logical channel identity                 |           | 2                                   |         | RCSU-109 |
| - CHOICE RLC size list                     |           | Explicit List                       |         | RCSU-110 |
| - RLC size index                           |           | Reference to clause 6 Parameter Set |         | RCSU-111 |
| - MAC logical channel priority             |           | 2                                   |         | RCSU-112 |
| - Downlink RLC logical channel info        |           |                                     |         | RCSU-113 |
| - Number of RLC logical channels           |           | 1                                   |         | RCSU-114 |
| - Downlink transport channel type          |           | FACH                                |         | RCSU-115 |
| - DL DCH Transport channel identity        |           | Not Present                         |         | RCSU-116 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RCSU-117 |
| - Logical channel identity                 |           | 2                                   |         | RCSU-118 |
| - Signalling RB information to setup       |           | (AM DCCH for NAS_DT High priority)  |         | RCSU-119 |
| - RB identity                              |           | Not Present                         |         | RCSU-120 |
| - CHOICE RLC info type                     |           |                                     |         | RCSU-121 |
| - RLC info                                 |           |                                     |         | RCSU-122 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                              |         | RCSU-123 |
| - Transmission RLC discard                 |           |                                     |         | RCSU-124 |
| - SDU discard mode                         |           | No Discard                          |         | RCSU-125 |
| - MAX_DAT                                  |           | 15                                  |         | RCSU-126 |
| - Transmission window size                 |           | 128                                 |         | RCSU-127 |
| - Timer_RST                                |           | 500                                 |         | RCSU-128 |
| - Max_RST                                  |           | 1                                   |         | RCSU-129 |
| - Polling info                             |           |                                     |         | RCSU-130 |
| - Timer_poll_prohibit                      |           | 200                                 |         | RCSU-131 |
| - Timer_poll                               |           | 200                                 |         | RCSU-132 |
| - Poll_PDU                                 |           | Not Present                         |         | RCSU-133 |
| - Poll_SDU                                 |           | 1                                   |         | RCSU-134 |
| - Last transmission PDU poll               |           | TRUE                                |         | RCSU-135 |
| - Last retransmission PDU poll             |           | TRUE                                |         | RCSU-136 |
| - Poll_Windows                             |           | 99                                  |         | RCSU-137 |
| - Timer_poll_periodic                      |           | Not Present                         |         | RCSU-138 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                              |         | RCSU-139 |
| - DL RLC PDU size                          |           | 96 bits                             | Rel-6   | RCSU-140 |

| Information Element                        | Condition | Value/remark                        | Version | Index    |
|--------------------------------------------|-----------|-------------------------------------|---------|----------|
| - DL RLC PDU size                          | A1        | 144 bits                            | Rel-6   | RCSU-141 |
| - In-sequence delivery                     |           | TRUE                                |         | RCSU-142 |
| - Receiving window size                    |           | 128                                 |         | RCSU-143 |
| - Downlink RLC status info                 |           |                                     |         | RCSU-144 |
| - Timer_status_prohibit                    |           | 200                                 |         | RCSU-145 |
| - Timer_EPC                                |           | Not Present                         |         | RCSU-146 |
| - Missing PDU indicator                    |           | TRUE                                |         | RCSU-147 |
| - Timer_STATUS_periodic                    |           | Not Present                         |         | RCSU-148 |
| - RB mapping info                          |           |                                     |         | RCSU-149 |
| - Information for each multiplexing option |           | 2 RBMuxOptions                      |         | RCSU-150 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RCSU-151 |
| - Number of RLC logical channels           |           | 1                                   |         | RCSU-152 |
| - Uplink transport channel type            |           | DCH                                 |         | RCSU-153 |
| - UL Transport channel identity            |           | 5                                   |         | RCSU-154 |
| - Logical channel identity                 |           | 3                                   |         | RCSU-155 |
| - CHOICE RLC size list                     |           | Configured                          |         | RCSU-156 |
| - MAC logical channel priority             |           | 3                                   |         | RCSU-157 |
| - Downlink RLC logical channel info        |           |                                     |         | RCSU-158 |
| - Number of RLC logical channels           |           | 1                                   |         | RCSU-159 |
| - Downlink transport channel type          |           | DCH                                 |         | RCSU-160 |
| - DL DCH Transport channel identity        |           | 10                                  |         | RCSU-161 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RCSU-162 |
| - Logical channel identity                 |           | 3                                   |         | RCSU-163 |
| - RLC logical channel mapping indicator    |           | Not Present                         |         | RCSU-164 |
| - Number of RLC logical channels           |           | 1                                   |         | RCSU-165 |
| - Uplink transport channel type            |           | RACH                                |         | RCSU-166 |
| - UL Transport channel identity            |           | Not Present                         |         | RCSU-167 |
| - Logical channel identity                 |           | 3                                   |         | RCSU-168 |
| - CHOICE RLC size list                     |           | Explicit List                       |         | RCSU-169 |
| - RLC size index                           |           | Reference to clause 6 Parameter Set |         | RCSU-170 |
| - MAC logical channel priority             |           | 3                                   |         | RCSU-171 |
| - Downlink RLC logical channel info        |           |                                     |         | RCSU-172 |
| - Number of RLC logical channels           |           | 1                                   |         | RCSU-173 |
| - Downlink transport channel type          |           | FACH                                |         | RCSU-174 |
| - DL DCH Transport channel identity        |           | Not Present                         |         | RCSU-175 |
| - DL DSCH Transport channel identity       |           | Not Present                         |         | RCSU-176 |
| - Logical channel identity                 |           | 3                                   |         | RCSU-177 |
| - Signalling RB information to setup       |           | (AM DCCH for NAS_DT Low priority)   |         | RCSU-178 |
| - RB identity                              |           | Not Present                         |         | RCSU-179 |
| - CHOICE RLC info type                     |           |                                     |         | RCSU-180 |
| - RLC info                                 |           |                                     |         | RCSU-181 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                              |         | RCSU-182 |
| - Transmission RLC discard                 |           |                                     |         | RCSU-183 |
| - SDU discard mode                         |           | No Discard                          |         | RCSU-184 |
| - MAX_DAT                                  |           | 15                                  |         | RCSU-185 |
| - Transmission window size                 |           | 128                                 |         | RCSU-186 |
| - Timer_RST                                |           | 500                                 |         | RCSU-187 |
| - Max_RST                                  |           | 1                                   |         | RCSU-188 |
| - Polling info                             |           |                                     |         | RCSU-189 |
| - Timer_poll_prohibit                      |           | 200                                 |         | RCSU-190 |
| - Timer_poll                               |           | 200                                 |         | RCSU-191 |
| - Poll_PDU                                 |           | Not Present                         |         | RCSU-192 |
| - Poll_SDU                                 |           | 1                                   |         | RCSU-193 |
| - Last transmission PDU poll               |           | TRUE                                |         | RCSU-194 |
| - Last retransmission PDU poll             |           | TRUE                                |         | RCSU-195 |
| - Poll_Windows                             |           | 99                                  |         | RCSU-196 |
| - Timer_poll_periodic                      |           | Not Present                         |         | RCSU-197 |
| - CHOICE Downlink RLC mode                 |           | AM RLC                              |         | RCSU-198 |
| - DL RLC PDU size                          |           | 96 bits                             | Rel-6   | RCSU-199 |
| - DL RLC PDU size                          | A1        | 144 bits                            | Rel-6   | RCSU-200 |
| - In-sequence delivery                     |           | TRUE                                |         | RCSU-201 |
| - Receiving window size                    |           | 128                                 |         | RCSU-202 |
| - Downlink RLC status info                 |           |                                     |         | RCSU-203 |
| - Timer_status_prohibit                    |           | 200                                 |         | RCSU-204 |
| - Timer_EPC                                |           | Not Present                         |         | RCSU-205 |
| - Missing PDU indicator                    |           | TRUE                                |         | RCSU-206 |
| - Timer_STATUS_periodic                    |           | Not Present                         |         | RCSU-207 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Condition | Value/remark                        | Version | Index    |
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| <ul style="list-style-type: none"> <li>- RB mapping info</li> <li>- Information for each multiplexing option</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- Logical channel identity</li> <li>- RLC logical channel mapping indicator</li> <li>- Number of RLC logical channels</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | 2 RBmuxOptions                      |         | RCSU-208 |
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| <ul style="list-style-type: none"> <li>- Logical channel identity</li> <li>- CHOICE RLC size list</li> <li>- RLC size index</li> <li>- MAC logical channel priority</li> <li>- Downlink RLC logical channel info</li> <li>- Number of RLC logical channels</li> <li>- Downlink transport channel type</li> <li>- DL DCH Transport channel identity</li> <li>- DL DSCH Transport channel identity</li> <li>- Logical channel identity</li> </ul> UL Transport channel information for all transport channels <ul style="list-style-type: none"> <li>- PRACH TFCS</li> <li>- CHOICE Mode</li> <li>- TFC subset</li> <li>- UL DCH TFCS</li> <li>- CHOICE TFCI signalling</li> <li>- TFCI Field 1 information</li> <li>- CHOICE TFCS representation</li> <li>- TFCS complete reconfiguration information</li> <li>- CHOICE CTFC Size</li> <li>- CTFC information</li> <li>- 2bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset Pp-m</li> <li>- 2bit CTFC</li> <li>- Power offset Information</li> <li>- CHOICE Gain Factors</li> <li>- CHOICE mode</li> <li>- Gain factor <math>\beta_c</math></li> <li>- Gain factor <math>\beta_d</math></li> <li>- Reference TFC ID</li> <li>- CHOICE mode</li> <li>- Power offset Pp-m</li> </ul> Added or Reconfigured UL TrCH information list <ul style="list-style-type: none"> <li>- Added or Reconfigured UL TrCH information</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport Format Information</li> <li>- RLC size</li> </ul> |           | 4                                   |         | RCSU-225 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | Not Present                         |         | RCSU-273 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Condition | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                            | Version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| - Number of Transport blocks<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel List<br>- Semi-static Transport Format Information<br>- Transmission time interval<br>- Type of channel coding<br>- Coding Rate<br>- Rate matching attribute<br>- CRC size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 0<br>Not Present<br>1<br>ALL<br><br>40<br>Convolutional<br>1/3<br>256<br>12                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RCSU-274<br>RCSU-275<br>RCSU-276<br>RCSU-277<br>RCSU-278<br>RCSU-279<br>RCSU-280<br>RCSU-281<br>RCSU-282<br>RCSU-283 |
| - CRC size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A1        | 16                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RCSU-284                                                                                                             |
| DL Transport channel information common for all transport channel<br>- SCCPCH TFCS<br>- CHOICE mode<br>- CHOICE DL parameters<br>Added or Reconfigured DL TrCH information list<br>- Added or Reconfigured DL TrCH information<br>- Downlink transport channel type<br>- DL Transport channel identity<br>- CHOICE DL parameters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | <br><br>Not Present<br>FDD<br>Same as UL<br>1<br><br>DCH<br>10<br>SameAsUL                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RCSU-285<br><br>RCSU-286<br>RCSU-287<br>RCSU-288<br>RCSU-289<br>RCSU-290<br>RCSU-291<br>RCSU-292<br>RCSU-293         |
| - Uplink transport channel type<br>- UL TrCH Identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | DCH<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RCSU-294<br>RCSU-295                                                                                                 |
| - DCH quality target<br>- BLER Quality value<br>Frequency info<br>Maximum allowed UL TX power<br>CHOICE channel requirement<br><br>Uplink DPCH info<br>- Uplink DPCH power control info<br>- DPCH power offset<br>- PC Preamble<br>- SRB delay<br>- Power Control Algorithm<br>- TPC step size<br>- Δ <sub>ACK</sub><br>- Δ <sub>NACK</sub><br>- Ack-Nack repetition factor<br>- HARQ_preamble_mode<br>- CHOICE mode<br>- Scrambling code type<br>- Scrambling code number<br>- Number of DPDCH<br>- Spreading factor<br>- TFCI existence<br>- Number of FBI bit<br>- Puncturing Limit<br>E-DCH Info<br>Downlink HS-PDSCH Information<br>Downlink information common for all radio links<br>- Downlink DPCH info common for all RL<br>- Timing Indication<br>- CFN-targetSFN frame offset<br>- Downlink DPCH power control information<br>- CHOICE mode<br>- DPC mode<br>- CHOICE mode<br>- Power offset P <sub>Pilot-DPDCH</sub><br>- DL rate matching restriction information<br>- Spreading factor<br>- Fixed or Flexible Position<br>- TFCI existence<br>- CHOICE SF<br>- Number of bits for Pilot bits |           | -20 (-2.0)<br>Not Present<br>Not Present<br>Uplink DPCH info<br><br><br><br>-40 (-80dB)<br>1 frame<br>7 frames<br>Algorithm1<br>0 (1dB)<br>Not Present<br>Not Present<br>Not Present<br>0<br>FDD<br>Long<br>0 (0 to 16777215)<br>Not Present (1)<br>256<br>TRUE<br>Not Present(0)<br>1<br>Not Present<br>Not Present<br><br>Initialize<br>Not Present<br><br>FDD<br>0 (single)<br>FDD<br>0<br>Not Present<br>256<br>Fixed<br>FALSE<br>8 | Rel-5 and earlier<br>Rel-6<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>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| Information Element                           | Condition | Value/remark                                        | Version            | Index    |
|-----------------------------------------------|-----------|-----------------------------------------------------|--------------------|----------|
| - DPCH compressed mode info                   |           | Not Present                                         |                    | RCSU-337 |
| - TX Diversity mode                           |           | None                                                |                    | RCSU-338 |
| - SSDT information                            |           | Not Present                                         |                    | RCSU-339 |
| - Default DPCH Offset Value                   |           | Arbitrary set to value 0..306688 by step of 512     | R99 and Rel-4 only | RCSU-340 |
| Downlink information for per radio links list |           |                                                     |                    | RCSU-341 |
| -Downlink information for each radio links    |           |                                                     |                    | RCSU-342 |
| - CHOICE mode                                 |           | FDD                                                 |                    | RCSU-343 |
| - Primary CPICH info                          |           |                                                     |                    | RCSU-344 |
| - Primary scrambling code                     |           | Reference to clause 6.1 "Default settings (FDD)"    |                    | RCSU-345 |
| - PDSCH with SHO DCH info                     |           | Not Present                                         | R99 and Rel-4 only | RCSU-346 |
| - PDSCH code mapping                          |           | Not Present                                         | R99 and Rel-4 only | RCSU-347 |
| - Serving HS-DSCH radio link indicator        |           | FALSE                                               | Rel-6              | RCSU-348 |
| - Serving E-DCH radio link indicator          |           | FALSE                                               | Rel-6              | RCSU-349 |
| - Downlink DPCH info for each RL              |           |                                                     |                    | RCSU-350 |
| - CHOICE mode                                 |           | FDD                                                 |                    | RCSU-351 |
| - Primary CPICH usage for channel estimation  |           | Primary CPICH may be used                           |                    | RCSU-352 |
| - DPCH frame offset                           |           | Set to value : Default DPCH Offset Value mod 38 400 |                    | RCSU-353 |
| - Secondary CPICH info                        |           | Not Present                                         |                    | RCSU-354 |
| - DL channelisation code                      |           |                                                     |                    | RCSU-355 |
| - Secondary scrambling code                   |           | Not Present                                         |                    | RCSU-356 |
| - Spreading factor                            |           | 256                                                 |                    | RCSU-357 |
| - Code number                                 |           | 192                                                 |                    | RCSU-358 |
| - Scrambling code change                      |           | Not Present                                         |                    | RCSU-359 |
| - TPC combination index                       |           | 0                                                   |                    | RCSU-360 |
| - SSDT Cell Identity                          |           | Not Present                                         | R99 and Rel-4 only | RCSU-361 |
| - Closed loop timing adjustment mode          |           | Not Present                                         |                    | RCSU-362 |
| - E-AGCH Info                                 |           | Not Present                                         | Rel-6              | RCSU-363 |
| - E-HICH Information                          |           | Not Present                                         | Rel-6              | RCSU-364 |
| - E-RGCH Information                          |           | Not Present                                         | Rel-6              | RCSU-365 |
| - SCCPCH information for FACH                 |           | Not Present                                         | R99 and Rel-4 only | RCSU-366 |

| Condition | Explanation                   |
|-----------|-------------------------------|
| A1        | UE supporting 64kbps(Chanel2) |

Contents of SECURITY MODE COMMAND message: AM

| Information Element              | Condition | Value/remark                                                                                                                                                       |
|----------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Message Type                     | A1, A2    |                                                                                                                                                                    |
| RRC transaction identifier       |           | Arbitrarily selects an integer between 0 and 3                                                                                                                     |
| Integrity check info             |           |                                                                                                                                                                    |
| - Message authentication code    |           | Set to an arbitrarily selected 32-bits integer. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.                          |
| - RRC Message Sequence Number    |           | Set to an arbitrarily selected integer between 0 and 15                                                                                                            |
| Security capability              |           |                                                                                                                                                                    |
| - Ciphering algorithm capability |           | If the UE has indicated support for ciphering algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. |
| - UEA0                           |           | COMPLETE message, this IE is set to TRUE. If the UE has indicated support for ciphering                                                                            |
| - UEA1                           |           |                                                                                                                                                                    |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- Spare</li> <li>- Integrity protection algorithm capability</li> <li>- UIA1</li> <li>- Spare</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                    |    | <p>algorithm UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. Spare 2-15 = FALSE<br/>0000000000000010B (UIA1)<br/>TRUE<br/>Spare 0 and Spare 2-15 = FALSE</p>                                                                                                                                                                                                                                                                                                                                                       |
| <p>Ciphering mode info</p> <ul style="list-style-type: none"> <li>- Ciphering mode command</li> <li>- Ciphering algorithm</li> </ul> <p>info</p> <ul style="list-style-type: none"> <li>- Ciphering activation time for DPCH</li> <li>- Radio bearer downlink ciphering activation time</li> <li>- Radio bearer activation time</li> <li>- RB identity</li> <li>- RLC sequence number</li> <li>- RB identity</li> <li>- RLC sequence number</li> <li>- RB identity</li> <li>- RLC sequence number</li> <li>- RB identity</li> <li>- RLC sequence number</li> </ul> |    | <p>This presence of this IE is dependent on IXT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.</p> <p>Start/restart<br/>UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.</p> <p>Not Present</p> <p>1<br/>Current RLC SN<br/>2<br/>Current RLC SN+3(or Calculated Value)<br/>3<br/>Current RLC SN<br/>4<br/>Current RLC SN</p> |
| <p>Integrity protection mode info</p> <ul style="list-style-type: none"> <li>- Integrity protection mode command</li> <li>- Downlink integrity protection activation info</li> <li>- Integrity protection algorithm</li> <li>- Integrity protection initialisation number</li> </ul>                                                                                                                                                                                                                                                                               |    | <p>Start<br/>Not Present<br/>UIA1<br/>SS selects an arbitrary 32 bits number for FRESH.<br/>The first/ leftmost bit of the bit string contains the most significant bit of the FRESH.A1</p>                                                                                                                                                                                                                                                                                                                                                                                   |
| CN domain identity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    | CS or PS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| UE system specific security capability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A1 | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>UE system specific security capability</p> <ul style="list-style-type: none"> <li>- Inter-RAT UE security capability</li> <li>- CHOICE <i>system</i></li> <li>- GSM security capability</li> </ul>                                                                                                                                                                                                                                                                                                                                                              | A2 | <p>GSM<br/>The indicated algorithms must be the same as the algorithms supported by the UE as indicated in the IE " UE system specific capability " in the RRC CONNECTION SETUP COMPLETE message.</p>                                                                                                                                                                                                                                                                                                                                                                         |

| Condition | Explanation           |
|-----------|-----------------------|
| A1        | UE not supporting GSM |
| A2        | UE supporting GSM     |

## 9.2.2 Default Message Contents for RF (TDD)

Contents of Activate RB Test Mode message

| Information Element    | Value/remark   |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator         | 0 (Length 1/2) |
| Message Type           | 44h            |

Contents of Close UE Test Loop message

| Information Element          | Value/remark    |
|------------------------------|-----------------|
| Protocol discriminator       | F (Length 1/2)  |
| Skip indicator               | 0 (Length 1/2)  |
| Message Type                 | 40h             |
| UE test loop mode            | 00h             |
| UE test loop mode 1 LB setup | 03h 00h F4h 0Ah |

## Contents of Open UE Test Loop message

| Information Element    | Value/remark   |
|------------------------|----------------|
| Protocol discriminator | F (Length 1/2) |
| Skip indicator         | 0 (Length 1/2) |
| Message Type           | 42h            |

## Contents of PAGING TYPE 1 message: TM (CS)

| Information Element           | Value/remark                                                        |
|-------------------------------|---------------------------------------------------------------------|
| Message Type                  |                                                                     |
| Paging record list            |                                                                     |
| -Paging record                |                                                                     |
| - CHOICE Used paging identity | CN identity                                                         |
| - Paging cause                | Terminating Streaming Call                                          |
| - CN domain identity          | CS domain                                                           |
| - CHOICE UE identity          |                                                                     |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the USIM card |
| BCCH modification info        | Not Present                                                         |

## Contents of PAGING TYPE 1 message: TM (PS)

| Information Element           | Value/remark                                                        |
|-------------------------------|---------------------------------------------------------------------|
| Message Type                  |                                                                     |
| Paging record list            |                                                                     |
| -Paging record                |                                                                     |
| - CHOICE Used paging identity | CN identity                                                         |
| - Paging cause                | Terminating Interactive Call                                        |
| - CN domain identity          | PS domain                                                           |
| - CHOICE UE identity          |                                                                     |
| - IMSI (GSM-MAP)              | Set to the same octet string as in the IMSI stored in the USIM card |
| BCCH modification info        | Not Present                                                         |

## Contents of RADIO BEARER SETUP message: AM or UM (3.84 Mcps TDD)

| Information Element                | Condition | Value/remark                                                                                                                                                       | Version            | Index    |
|------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Message Type                       | A1,A3     |                                                                                                                                                                    |                    | RBS3-001 |
| RRC transaction identifier         |           | Arbitrarily selects an integer between 0 and 3                                                                                                                     |                    | RBS3-002 |
| Integrity check info               |           |                                                                                                                                                                    |                    | RBS3-003 |
| - message authentication code      |           | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                    | RBS3-004 |
| - RRC message sequence number      |           | SS provides the value of this IE, from its internal counter.                                                                                                       |                    | RBS3-005 |
| Integrity protection mode info     |           | Not Present                                                                                                                                                        |                    | RBS3-006 |
| Ciphering mode info                |           | Not Present                                                                                                                                                        |                    | RBS3-007 |
| Activation time                    |           | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                                                   |                    | RBS3-008 |
| New U-RNTI                         |           | Not Present                                                                                                                                                        |                    | RBS3-009 |
| New C-RNTI                         |           | Not Present                                                                                                                                                        |                    | RBS3-010 |
| New DSCH-RNTI                      |           | Not Present                                                                                                                                                        |                    | RBS3-011 |
| New H-RNTI                         |           | Not Present                                                                                                                                                        | R99 and Rel-4 only | RBS3-012 |
| RRC State indicator                |           | CELL_DCH                                                                                                                                                           | Rel-5              | RBS3-013 |
| UTRAN DRX cycle length coefficient |           | Not Present                                                                                                                                                        |                    | RBS3-014 |

| Information Element                  | Condition | Value/remark                                                                                     | Version | Index    |
|--------------------------------------|-----------|--------------------------------------------------------------------------------------------------|---------|----------|
| CN information info                  | A1        | Not Present                                                                                      |         | RBS3-015 |
| URA identity                         |           | Not Present                                                                                      |         | RBS3-016 |
| - Signalling RB information to setup |           | Not Present                                                                                      |         | RBS3-017 |
| - RAB information for setup list     |           |                                                                                                  |         | RBS3-018 |
| - RAB information for setup          |           |                                                                                                  |         | RBS3-019 |
| - RAB info                           |           | 0000 0001B                                                                                       |         | RBS3-020 |
| - RAB identity                       |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS3-021 |
| - CN domain identity                 |           | CS domain                                                                                        |         | RBS3-022 |
| - NAS Synchronization Indicator      |           | Not Present                                                                                      |         | RBS3-023 |
| - Re-establishment timer             |           | UseT314                                                                                          |         | RBS3-024 |
| - RB information to setup list       |           |                                                                                                  |         | RBS3-025 |
| - RB information to setup            |           |                                                                                                  |         | RBS3-026 |
| - RB identity                        |           | 10                                                                                               |         | RBS3-027 |
| - PDCP info                          |           | Not Present                                                                                      |         | RBS3-028 |
| - CHOICE RLC info type               |           | RLC info                                                                                         |         | RBS3-029 |
| - CHOICE Uplink RLC mode             |           | TM RLC                                                                                           |         | RBS3-030 |
| - Transmission RLC discard           |           | Not Present                                                                                      |         | RBS3-031 |
| - Segmentation indication            |           | FALSE                                                                                            |         | RBS3-032 |
| - CHOICE Downlink RLC mode           |           | TM RLC                                                                                           |         | RBS3-033 |
| - Segmentation indication            |           | FALSE                                                                                            |         | RBS3-034 |
| - RB mapping info                    |           |                                                                                                  |         | RBS3-035 |
| - Information for each multiplexing  |           |                                                                                                  |         | RBS3-036 |
| option                               |           |                                                                                                  |         |          |
| - RLC logical channel mapping        |           | Not Present                                                                                      |         | RBS3-037 |
| indicator                            |           |                                                                                                  |         |          |
| - Number of uplink RLC logical       |           | 1                                                                                                |         | RBS3-038 |
| channels                             |           |                                                                                                  |         |          |
| - Uplink transport channel type      |           | DCH                                                                                              |         | RBS3-039 |
| - UL Transport channel identity      |           | 1                                                                                                |         | RBS3-040 |
| - Logical channel identity           |           | Not Present                                                                                      |         | RBS3-041 |
| - CHOICE RLC size list               |           | Configured                                                                                       |         | RBS3-042 |
| - MAC logical channel priority       |           | 7                                                                                                |         | RBS3-043 |
| - Downlink RLC logical channel       |           |                                                                                                  |         | RBS3-044 |
| info                                 |           |                                                                                                  |         |          |
| - Number of downlink RLC logical     |           | 1                                                                                                |         | RBS3-045 |
| channels                             |           |                                                                                                  |         |          |
| - Downlink transport channel type    |           | DCH                                                                                              |         | RBS3-046 |
| - DL DCH Transport channel           |           | 6                                                                                                |         | RBS3-047 |
| identity                             |           |                                                                                                  |         |          |
| - DL DSCH Transport channel          |           | Not Present                                                                                      |         | RBS3-048 |
| identity                             |           |                                                                                                  |         |          |
| - Logical channel identity           |           | Not Present                                                                                      |         | RBS3-049 |
| RAB information for setup list       | A3        |                                                                                                  |         | RBS3-050 |
| - RAB information for setup          |           |                                                                                                  |         | RBS3-051 |
| - RAB info                           |           |                                                                                                  |         | RBS3-052 |
| - RAB identity                       |           | 0000 0101B                                                                                       |         | RBS3-053 |
|                                      |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |          |
| - CN domain identity                 |           | PS domain                                                                                        |         | RBS3-054 |
| - NAS Synchronization Indicator      |           | Not Present                                                                                      |         | RBS3-055 |
| - Re-establishment timer             |           | UseT314                                                                                          |         | RBS3-056 |
| - RB information to setup list       |           |                                                                                                  |         | RBS3-057 |
| - RB information to setup            |           |                                                                                                  |         | RBS3-058 |
| - RB identity                        |           | 20                                                                                               |         | RBS3-059 |
| - PDCP info                          |           | Not Present                                                                                      |         | RBS3-060 |
| - CHOICE RLC info type               |           | RLC info                                                                                         |         | RBS3-061 |
| - CHOICE Uplink RLC mode             |           | AM RLC                                                                                           |         | RBS3-062 |
| - Transmission RLC discard           |           |                                                                                                  |         | RBS3-063 |
| - CHOICE SDU discard mode            |           | No discard                                                                                       |         | RBS3-064 |
| - MAX_DAT                            |           | 15                                                                                               |         | RBS3-065 |
| - Transmission window size           |           | 128                                                                                              |         | RBS3-066 |
| - Timer_RST                          |           | 500                                                                                              |         | RBS3-067 |
| - Max_RST                            |           | 4                                                                                                |         | RBS3-068 |
| - Polling info                       |           |                                                                                                  |         | RBS3-069 |
| - Timer_poll_prohibit                |           | 200                                                                                              |         | RBS3-070 |

| Information Element                                         | Condition | Value/remark                                                         | Version | Index    |
|-------------------------------------------------------------|-----------|----------------------------------------------------------------------|---------|----------|
| - Timer_poll                                                |           | 200                                                                  |         | RBS3-071 |
| - Poll_SDU                                                  |           | 1                                                                    |         | RBS3-072 |
| - Last transmission PDU poll                                |           | TRUE                                                                 |         | RBS3-073 |
| - Last retransmission PDU poll                              |           | TRUE                                                                 |         | RBS3-074 |
| - Poll_Windows                                              |           | 99                                                                   |         | RBS3-075 |
| - Timer_poll_periodic                                       |           | Not Present                                                          |         | RBS3-076 |
| - CHOICE Downlink RLC mode                                  |           | AM RLC                                                               |         | RBS3-077 |
| - In-sequence delivery                                      |           | TRUE                                                                 |         | RBS3-078 |
| - Receiving window size                                     |           | 128                                                                  |         | RBS3-079 |
| - Downlink RLC status info                                  |           |                                                                      |         | RBS3-080 |
| - Timer_status_prohibit                                     |           | 200                                                                  |         | RBS3-081 |
| - Timer_EPC                                                 |           | 200                                                                  |         | RBS3-082 |
| - Missing PDU indicator                                     |           | TRUE                                                                 |         | RBS3-083 |
| - Timer_STATUS_periodic                                     |           | Not Present                                                          |         | RBS3-084 |
| - RB mapping info                                           |           |                                                                      |         | RBS3-085 |
| - Information for each multiplexing option                  |           | 2RBMuxOptions                                                        |         | RBS3-086 |
| - RLC logical channel mapping indicator                     |           | Not Present                                                          |         | RBS3-087 |
| - Number of uplink RLC logical channels                     |           | 1                                                                    |         | RBS3-088 |
| - Uplink transport channel type                             |           | DCH                                                                  |         | RBS3-089 |
| - UL Transport channel identity                             |           | 1                                                                    |         | RBS3-090 |
| - Logical channel identity                                  |           | Not Present                                                          |         | RBS3-091 |
| - CHOICE RLC size list                                      |           | Configured                                                           |         | RBS3-092 |
| - MAC logical channel priority                              |           | 8                                                                    |         | RBS3-093 |
| - Downlink RLC logical channel info                         |           |                                                                      |         | RBS3-094 |
| - Number of downlink RLC logical channels                   |           | 1                                                                    |         | RBS3-095 |
| - Downlink transport channel type                           |           | DCH                                                                  |         | RBS3-096 |
| - DL DCH Transport channel identity                         |           | 6                                                                    |         | RBS3-097 |
| - DL DSCH Transport channel identity                        |           | Not Present                                                          |         | RBS3-098 |
| - Logical channel identity                                  |           | Not Present                                                          |         | RBS3-099 |
| - RLC logical channel mapping indicator                     |           | Not Present                                                          |         | RBS3-100 |
| - Number of uplink RLC logical channels                     |           | 1                                                                    |         | RBS3-101 |
| - Uplink transport channel type                             |           | RACH                                                                 |         | RBS3-102 |
| - UL Transport channel identity                             |           | Not Present                                                          |         | RBS3-103 |
| - Logical channel identity                                  |           | 7                                                                    |         | RBS3-104 |
| - CHOICE RLC size list                                      |           | Explicit List                                                        |         | RBS3-105 |
| - RLC size index                                            |           | Reference to clause 6 Parameter Set                                  |         | RBS3-106 |
| - MAC logical channel priority                              |           | 8                                                                    |         | RBS3-107 |
| - Downlink RLC logical channel info                         |           |                                                                      |         | RBS3-108 |
| - Number of downlink RLC logical channels                   |           | 1                                                                    |         | RBS3-109 |
| - Downlink transport channel type                           |           | FACH                                                                 |         | RBS3-110 |
| - DL DCH Transport channel identity                         |           | Not Present                                                          |         | RBS3-111 |
| - DL DSCH Transport channel identity                        |           | Not Present                                                          |         | RBS3-112 |
| - Logical channel identity                                  |           | Not Present                                                          |         | RBS3-113 |
| RB information to be affected list                          | A1,A3     | Not Present                                                          |         | RBS3-114 |
| Downlink counter synchronization info                       |           | Not Present                                                          |         | RBS3-115 |
| UL Transport channel information for all transport channels | A1,A3     |                                                                      |         | RBS3-116 |
| - PRACH TFCS                                                |           | Not Present                                                          |         | RBS3-117 |
| - CHOICE mode                                               |           | TDD                                                                  |         | RBS3-118 |
| -Individual UL CCTrCH information                           |           |                                                                      |         | RBS3-119 |
| - TFCS ID                                                   |           | (This IE is repeated for TFC number.)                                |         | RBS3-120 |
| - Allowed Transport Format combination                      |           | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.) |         | RBS3-121 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Condition | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                           | Version | Index                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- PRACH TFCS</li> <li>- CHOICE TFCI signalling <ul style="list-style-type: none"> <li>- TFCI Field 1 information</li> <li>- TFCS complete</li> </ul> </li> </ul> reconfigure information <ul style="list-style-type: none"> <li>- CHOICE TFCS Size</li> </ul> <ul style="list-style-type: none"> <li>- CTFC information</li> <li>- CHOICE mode <ul style="list-style-type: none"> <li>- Individual UL CCTrCH</li> </ul> </li> </ul> information<br>Deleted UL TrCH information list                                                                                                                                                                                                                                                                                                                                                                    |           | (This IE is repeated for TFC number.)<br>Normal<br><br>Number of used bits must be enough to cover all combinations of CTFC from clauses 6.<br>Refer to clause 6 Parameter Set<br>Not Present<br>TDD<br>Not Present<br><br>Not Present                                                                                                                                                                                                                 |         | RBS3-122<br>RBS3-123<br>RBS3-124<br>RBS3-125<br><br>RBS3-126<br><br>RBS3-127<br>RBS3-128<br>RBS3-129<br><br>RBS3-130                                                                                                                                         |
| Added or Reconfigured UL TrCH information list <ul style="list-style-type: none"> <li>- Added or Reconfigured UL TrCH information</li> <li>- Uplink transport channel type</li> <li>- UL Transport channel identity</li> <li>- TFS</li> <li>- CHOICE Transport channel type</li> <li>- Dynamic Transport Format Information <ul style="list-style-type: none"> <li>- RLC size</li> <li>- Number of TBs and TTI List</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- Transmission Time Interval</li> <li>- Number of Transport blocks</li> <li>- CHOICE Logical channel List</li> <li>- Semi-static Transport Format Information <ul style="list-style-type: none"> <li>- Transmission time interval</li> <li>- Type of channel coding</li> <li>- Coding Rate</li> <li>- Rate matching attribute</li> <li>- CRC size</li> </ul> </li> </ul> </li> </ul> | A1        | 1<br><br>DCH<br>1<br><br>Dedicated transport channels<br><br>Reference to clause 6.10 Parameter Set<br>(This IE is repeated for TFI number.)<br>Not Present<br>Reference to clause 6.10 Parameter Set<br>Not Present<br>1<br>ALL<br><br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set |         | RBS3-131<br><br>RBS3-132<br><br>RBS3-133<br>RBS3-134<br>RBS3-135<br>RBS3-136<br>RBS3-137<br><br>RBS3-138<br>RBS3-139<br>RBS3-140<br>RBS3-141<br>RBS3-142<br>RBS3-143<br>RBS3-144<br>RBS3-145<br><br>RBS3-146<br>RBS3-147<br>RBS3-148<br>RBS3-149<br>RBS3-150 |
| CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A1, A3    | TDD (no data)                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | RBS3-151                                                                                                                                                                                                                                                     |
| DL Transport channel information common for all transport channel <ul style="list-style-type: none"> <li>- SCCPCH TFCS</li> <li>- CHOICE mode</li> <li>- CHOICE DL parameters</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A1,A3     | Not Present<br>TDD<br>Independent (Refer to clause 6)                                                                                                                                                                                                                                                                                                                                                                                                  |         | RBS3-152<br><br>RBS3-153<br>RBS3-154<br>RBS3-155                                                                                                                                                                                                             |
| Deleted DL TrCH information list<br>Added or Reconfigured DL TrCH information list <ul style="list-style-type: none"> <li>- Added or Reconfigured DL TrCH information</li> <li>- Downlink transport channel type</li> <li>- DL Transport channel identity</li> <li>- CHOICE DL parameters</li> <li>- Uplink transport channel type</li> <li>- UL TrCH identity</li> <li>- DCH quality target</li> <li>- BLER Quality value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A1,A3     | Not Present<br>1<br><br>DCH<br>6<br>Same as UL<br>DCH<br>1<br><br>Reference to clause 6                                                                                                                                                                                                                                                                                                                                                                |         | RBS3-156<br>RBS3-157<br><br>RBS3-158<br><br>RBS3-159<br>RBS3-160<br>RBS3-161<br>RBS3-162<br>RBS3-163<br>RBS3-164<br>RBS3-165                                                                                                                                 |
| Frequency info<br>Maximum allowed UL TX power<br>CHOICE channel requirement <ul style="list-style-type: none"> <li>- Uplink DPCH power control info</li> <li>- CHOICE mode <ul style="list-style-type: none"> <li>- UL Target SIR</li> <li>- CHOICE UL OL PC info <ul style="list-style-type: none"> <li>- CHOICE TDD option <ul style="list-style-type: none"> <li>- Individual timeslot</li> </ul> </li> </ul> </li> </ul> </li> </ul> interference info <ul style="list-style-type: none"> <li>- Individual timeslot</li> </ul> interference                                                                                                                                                                                                                                                                                                                                               | A1,A3     | Not Present<br>30dBm<br>Uplink DPCH info<br><br>TDD<br>Reference to clause 6 Parameter set.<br>Individually signalled<br>3.84 Mcps                                                                                                                                                                                                                                                                                                                     |         | RBS3-166<br>RBS3-167<br>RBS3-168<br>RBS3-169<br>RBS3-170<br>RBS3-171<br>RBS3-172<br>RBS3-173<br>RBS3-174<br><br>RBS3-175                                                                                                                                     |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Condition | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                     | Version | Index                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>- DPCH Constant Value</li> <li>- CHOICE mode</li> <li>- Uplink Timing Advance Control</li> <li>- UL CCTrCH List</li> <li>- TFCS Id</li> <li>- Time info</li> <li>- Activation time</li> <li>- Duration</li> <li>- Common timeslot info</li> <li>- 2<sup>nd</sup> interleaving mode</li> <li>- TFCI coding</li> <li>- Puncturing Limit</li> <li>- Repetition Period</li> <li>- Repetition Length</li> <li>- First individual timeslot info</li> <li>- Timeslot number</li> <li>- TFCI existence</li> <li>- Midamble shift and burst</li> </ul> |           | Values are used for open loop power control, clause 8 in 3GPP TS 25.331 [34]<br>TDD<br>Not Present<br>1<br>(256+CFN-(CFN MOD 8 + 8))MOD 256<br>Infinite<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>Reference to clause 6.10 Parameter Set<br>The number of an uplink timeslot that has unassigned codes.<br>TRUE |         | RBS3-176<br>RBS3-177<br>RBS3-178<br>RBS3-179<br>RBS3-180<br>RBS3-181<br>RBS3-182<br>RBS3-183<br>RBS3-184<br>RBS3-185<br>RBS3-186<br>RBS3-187<br>RBS3-188<br>RBS3-189<br>RBS3-190<br>RBS3-191<br>RBS3-192<br>RBS3-193 |
| type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | 3.84 Mcps                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | RBS3-194                                                                                                                                                                                                             |
| Allocation Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | Default                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | RBS3-195                                                                                                                                                                                                             |
| configuration burst type 1 and 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | As defined in 3GPP TS 25.221 [28]                                                                                                                                                                                                                                                                                                                                                                                                                |         | RBS3-196                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>- First timeslot channelisation codes</li> <li>- Channelisation code</li> <li>- CHOICE more timeslots</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                              |           | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set.<br>(i/SF) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.<br>The presence of this IE depends upon the number of resources specified in clause 6 and the number of slots in which they are being assigned.                                                                                  |         | RBS3-197<br>RBS3-198<br>RBS3-199<br>RBS3-200<br>RBS3-201                                                                                                                                                             |
| CHOICE Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | TDD (no data)                                                                                                                                                                                                                                                                                                                                                                                                                                    |         | RBS3-202                                                                                                                                                                                                             |
| Downlink HS-PDSCH Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A1,A3     | Not Present                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rel-5   | RBS3-203                                                                                                                                                                                                             |
| Downlink information common for all radio links                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A1,A3     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         | RBS3-204                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>- Downlink DPCH info common for all RL</li> <li>- Timing indicator</li> <li>- CFN-targetSFN frame offset</li> <li>- Downlink DPCH power control information</li> <li>- CHOICE mode</li> <li>- DPC mode</li> <li>- CHOICE TDD mode</li> <li>- Default DPCH Offset Value</li> </ul>                                                                                                                                                                                                                                                             |           | Maintain<br>Not Present<br>TDD<br>0 (single)<br>3.84 Mcps (no data)<br>Not Present                                                                                                                                                                                                                                                                                                                                                               |         | RBS3-205<br>RBS3-206<br>RBS3-207<br>RBS3-208<br>RBS3-209<br>RBS3-210<br>RBS3-211<br>RBS3-212                                                                                                                         |
| Downlink information for per radio link list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A1,A3     |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         | RBS3-213                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>- Downlink information for each radio link</li> <li>- CHOICE mode</li> <li>- Primary CCPCH info</li> <li>- CHOICE SyncCase</li> <li>- Timeslot</li> <li>- Cell parameters ID</li> <li>- SCTD indicator</li> <li>- Downlink DPCH info for each RL</li> <li>- CHOICE mode</li> <li>- DL CCTrCH List</li> <li>- TFCS ID</li> <li>- Time info</li> <li>- Activation time</li> <li>- Duration</li> <li>- Common timeslot info</li> </ul>                                                                                                           |           | TDD<br>Sync Case 1<br>PCCPCH timeslot<br>0<br>TDD<br>1<br>(256+CFN-(CFN mod 8 + 8))mod 256<br>infinite                                                                                                                                                                                                                                                                                                                                           |         | RBS3-214<br>RBS3-215<br>RBS3-216<br>RBS3-217<br>RBS3-218<br>RBS3-219<br>RBS3-220<br>RBS3-221<br>RBS3-222<br>RBS3-223<br>RBS3-224<br>RBS3-225<br>RBS3-226<br>RBS3-227<br>RBS3-228                                     |

| Information Element                                                                                                                                                                                                                                                                                  | Condition | Value/remark                                                                                                                                                     | Version            | Index    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| and codes<br><br>burst type<br><br>Allocation Mode<br>- Midamble configuration burst type 1 and 3<br>channelisation codes<br>- First channelisation code<br><br>- Last channelisation code<br>- Bitmap<br><br>- CHOICE more timeslots<br><br>- UL CCTrCH TPC List<br>-SCCPCH information for<br>FACH |           | Reference to the present document                                                                                                                                |                    | RBS3-229 |
|                                                                                                                                                                                                                                                                                                      |           | TRUE                                                                                                                                                             |                    | RBS3-230 |
|                                                                                                                                                                                                                                                                                                      |           | Reference to clause 6 Parameter set                                                                                                                              |                    | RBS3-231 |
|                                                                                                                                                                                                                                                                                                      |           | 1                                                                                                                                                                |                    | RBS3-232 |
|                                                                                                                                                                                                                                                                                                      |           | Empty                                                                                                                                                            |                    | RBS3-233 |
|                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                  |                    | RBS3-234 |
|                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                  |                    | RBS3-235 |
|                                                                                                                                                                                                                                                                                                      |           | The number of a downlink timeslot that has unassigned codes.                                                                                                     |                    | RBS3-236 |
|                                                                                                                                                                                                                                                                                                      |           | TRUE                                                                                                                                                             |                    | RBS3-237 |
|                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                  |                    | RBS3-238 |
|                                                                                                                                                                                                                                                                                                      |           | 3.84 Mcps                                                                                                                                                        |                    | RBS3-239 |
|                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                  |                    | RBS3-240 |
|                                                                                                                                                                                                                                                                                                      |           | -Type 1                                                                                                                                                          |                    | RBS3-241 |
|                                                                                                                                                                                                                                                                                                      |           | -Midamble                                                                                                                                                        |                    | RBS3-242 |
|                                                                                                                                                                                                                                                                                                      |           | Default                                                                                                                                                          |                    |          |
|                                                                                                                                                                                                                                                                                                      |           | As defined in 3GPP TS 25.221 [28]                                                                                                                                |                    | RBS3-243 |
|                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                  |                    | RBS3-244 |
|                                                                                                                                                                                                                                                                                                      |           | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set..                                                |                    | RBS3-245 |
|                                                                                                                                                                                                                                                                                                      |           | (j/SF) where j is the highest numbered code that is being assigned in the slot.                                                                                  |                    | RBS3-246 |
|                                                                                                                                                                                                                                                                                                      |           | Bitmap of the codes that are being assigned in the slot.                                                                                                         |                    | RBS3-247 |
|                                                                                                                                                                                                                                                                                                      |           | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. |                    | RBS3-248 |
|                                                                                                                                                                                                                                                                                                      |           | Not Present                                                                                                                                                      |                    | RBS3-249 |
|                                                                                                                                                                                                                                                                                                      |           | Not Present                                                                                                                                                      |                    | RBS3-250 |
|                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                  |                    |          |
|                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                  |                    |          |
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|                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                  |                    |          |
|                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                  | R99 and Rel-4 only |          |

| Condition                                                                                                                                                      | Explanation                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| A1                                                                                                                                                             | This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is selected. |
| A3                                                                                                                                                             | This IE is needed for acknowledged mode.                                                          |
| NOTE: In the case of Performance Requirement and RRM test cases, A1 or A3 is selected according to the combination of UL and DL channels or test requirements. |                                                                                                   |

## Contents of RADIO BEARER SETUP message: AM or UM (1.28 Mcps TDD)

| Information Element            | Condition          | Value/remark                                   | Version | Index    |
|--------------------------------|--------------------|------------------------------------------------|---------|----------|
| Message Type                   | A1,A3              | Arbitrarily selects an integer between 0 and 3 |         | RBS1-001 |
| RRC transaction identifier     |                    |                                                |         | RBS1-002 |
| Integrity check info           |                    |                                                |         | RBS1-003 |
| - message authentication code  |                    |                                                |         | RBS1-004 |
|                                |                    |                                                |         |          |
| - RRC message sequence number  |                    |                                                |         | RBS1-005 |
| Integrity protection mode info |                    |                                                |         | RBS1-006 |
| Ciphering mode info            |                    |                                                |         | RBS1-007 |
| Activation time                |                    |                                                |         | RBS1-008 |
| New U-RNTI                     |                    |                                                |         | RBS1-009 |
| New C-RNTI                     | R99 and Rel-4 only | Not Present                                    | Rel-5   | RBS1-010 |
| New DSCH-RNTI                  |                    |                                                |         | RBS1-011 |
|                                |                    |                                                |         |          |
| New H-RNTI                     |                    |                                                |         | RBS1-012 |
| New Primary E-RNTI             |                    |                                                |         | RBS1-013 |
| RRC State indicator            |                    |                                                |         | RBS1-014 |
|                                |                    |                                                |         |          |
|                                |                    |                                                |         |          |
|                                |                    |                                                |         |          |
|                                |                    |                                                |         |          |



| Information Element                        | Condition | Value/remark                                                                                                   | Version | Index    |
|--------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------|---------|----------|
| UTRAN DRX cycle length coefficient         | A1        | Not Present                                                                                                    | Rel-5   | RBS1-015 |
| CN information info                        |           | Not Present                                                                                                    |         | RBS1-016 |
| URA identity                               |           | Not Present                                                                                                    |         | RBS1-017 |
| CHOICE specification mode                  |           | Complete specification                                                                                         |         | RBS1-018 |
| - Signalling RB information to setup       |           | Not Present                                                                                                    |         | RBS1-019 |
| - RAB information for setup list           |           |                                                                                                                |         | RBS1-020 |
| - RAB information for setup                |           |                                                                                                                |         | RBS1-021 |
| - RAB info                                 |           |                                                                                                                |         | RBS1-022 |
| - RAB identity                             |           | 0000 0001B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS1-023 |
| - CN domain identity                       |           | CS domain                                                                                                      |         | RBS1-024 |
| - NAS Synchronization Indicator            |           | Not Present                                                                                                    |         | RBS1-025 |
| - Re-establishment timer                   |           | UseT314                                                                                                        |         | RBS1-026 |
| - RB information to setup list             |           |                                                                                                                |         | RBS1-027 |
| - RB information to setup                  |           |                                                                                                                |         | RBS1-028 |
| - RB identity                              |           | 10                                                                                                             |         | RBS1-029 |
| - PDCP info                                |           | Not Present                                                                                                    |         | RBS1-030 |
| - CHOICE RLC info type                     |           | RLC info                                                                                                       |         | RBS1-031 |
| - CHOICE Uplink RLC mode                   |           | TM RLC                                                                                                         |         | RBS1-032 |
| - Transmission RLC discard                 |           | Not Present                                                                                                    |         | RBS1-033 |
| - Segmentation indication                  |           | FALSE                                                                                                          |         | RBS1-034 |
| - CHOICE Downlink RLC mode                 |           | TM RLC                                                                                                         |         | RBS1-035 |
| - Segmentation indication                  |           | FALSE                                                                                                          |         | RBS1-036 |
| - One sided RLC re-establishment           |           | FALSE                                                                                                          |         | RBS1-037 |
| - RB mapping info                          |           |                                                                                                                |         | RBS1-038 |
| - Information for each multiplexing option |           |                                                                                                                |         | RBS1-039 |
| - RLC logical channel mapping indicator    |           | Not Present                                                                                                    |         | RBS1-040 |
| - Number of uplink RLC logical channels    |           | 1                                                                                                              |         | RBS1-041 |
| - Uplink transport channel type            |           | DCH                                                                                                            |         | RBS1-042 |
| - UL Transport channel identity            |           | 1                                                                                                              |         | RBS1-043 |
| - Logical channel identity                 |           | Not Present                                                                                                    |         | RBS1-044 |
| - CHOICE RLC size list                     |           | Configured                                                                                                     |         | RBS1-045 |
| - MAC logical channel priority             |           | 7                                                                                                              |         | RBS1-046 |
| - Downlink RLC logical channel info        |           |                                                                                                                |         | RBS1-047 |
| - Number of downlink RLC logical channels  |           | 1                                                                                                              |         | RBS1-048 |
| - Downlink transport channel type          |           | DCH                                                                                                            |         | RBS1-049 |
| - DL DCH Transport channel identity        |           | 6                                                                                                              |         | RBS1-050 |
| - DL DSCH Transport channel identity       |           | Not Present                                                                                                    |         | RBS1-051 |
| - Logical channel identity                 |           | Not Present                                                                                                    |         | RBS1-052 |
| RAB information for setup list             | A3        |                                                                                                                |         | RBS1-053 |
| - RAB information for setup                |           |                                                                                                                |         | RBS1-054 |
| - RAB info                                 |           |                                                                                                                |         | RBS1-055 |
| - RAB identity                             |           | 0000 0101B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBS1-056 |
| - CN domain identity                       |           | PS domain                                                                                                      |         | RBS1-057 |
| - NAS Synchronization Indicator            |           | Not Present                                                                                                    |         | RBS1-058 |
| - Re-establishment timer                   |           | UseT315                                                                                                        |         | RBS1-059 |
| - RB information to setup list             |           |                                                                                                                |         | RBS1-060 |
| - RB information to setup                  |           |                                                                                                                |         | RBS1-061 |
| - RB identity                              |           | 20                                                                                                             |         | RBS1-062 |
| - PDCP info                                |           | Not Present                                                                                                    |         | RBS1-063 |
| - CHOICE RLC info type                     |           | RLC info                                                                                                       |         | RBS1-064 |
| - CHOICE Uplink RLC mode                   |           | AM RLC                                                                                                         |         | RBS1-065 |
| - Transmission RLC discard                 |           |                                                                                                                |         | RBS1-066 |
| - CHOICE SDU discard mode                  |           | No discard                                                                                                     |         | RBS1-067 |
| - MAX_DAT                                  |           | 15                                                                                                             |         | RBS1-068 |
| - Transmission window size                 |           | 128                                                                                                            |         | RBS1-069 |
| - Timer_RST                                |           | 500                                                                                                            |         | RBS1-070 |
| - Max_RST                                  |           | 4                                                                                                              |         | RBS1-071 |

| Information Element                                         | Condition | Value/remark                        | Version            | Index    |
|-------------------------------------------------------------|-----------|-------------------------------------|--------------------|----------|
| - Polling info                                              |           | 200                                 |                    | RBS1-072 |
| - Timer_poll_prohibit                                       |           | 200                                 |                    | RBS1-073 |
| - Timer_poll                                                |           | Not Present                         |                    | RBS1-074 |
| - Poll_PDU                                                  |           | 1                                   |                    | RBS1-075 |
| - Poll_SDU                                                  |           | TRUE                                |                    | RBS1-076 |
| - Last transmission PDU poll                                |           | TRUE                                |                    | RBS1-077 |
| - Last retransmission PDU poll                              |           | 99                                  |                    | RBS1-078 |
| - Poll_Windows                                              |           | Not Present                         |                    | RBS1-079 |
| - Timer_poll_periodic                                       |           | AM RLC                              |                    | RBS1-080 |
| - CHOICE Downlink RLC mode                                  |           | Reference to clause 6 Parameter Set | Rel-5              | RBS1-081 |
| - DL RLC PDU size                                           |           | TRUE                                |                    | RBS1-082 |
| - In-sequence delivery                                      |           | 128                                 |                    | RBS1-083 |
| - Receiving window size                                     |           | 200                                 |                    | RBS1-084 |
| - Downlink RLC status info                                  |           | 200                                 |                    | RBS1-085 |
| - Timer_status_prohibit                                     |           |                                     |                    | RBS1-086 |
| - Timer_EPC                                                 |           |                                     | R99 and Rel-4 only | RBS1-087 |
| - Missing PDU indicator                                     |           | TRUE                                |                    | RBS1-088 |
| - Timer_STATUS_periodic                                     |           | Not Present                         |                    | RBS1-089 |
| - One sided RLC re-establishment                            |           | FALSE                               | Rel-5              | RBS1-090 |
| - RB mapping info                                           |           | 2RBMuxOptions                       |                    | RBS1-091 |
| - Information for each multiplexing option                  |           |                                     |                    | RBS1-092 |
| - RLC logical channel mapping indicator                     |           | Not Present                         |                    | RBS1-093 |
| - Number of uplink RLC logical channels                     |           | 1                                   |                    | RBS1-094 |
| - Uplink transport channel type                             |           | DCH                                 |                    | RBS1-095 |
| - UL Transport channel identity                             |           | 1                                   |                    | RBS1-096 |
| - Logical channel identity                                  |           | Not Present                         |                    | RBS1-097 |
| - CHOICE RLC size list                                      |           | Configured                          |                    | RBS1-098 |
| - MAC logical channel priority                              |           | 8                                   |                    | RBS1-099 |
| - Downlink RLC logical channel info                         |           | 1                                   |                    | RBS1-100 |
| - Number of downlink RLC logical channels                   |           |                                     |                    | RBS1-101 |
| - Downlink transport channel type                           |           | DCH                                 |                    | RBS1-102 |
| - DL DCH Transport channel identity                         |           | 6                                   |                    | RBS1-103 |
| - DL DSCH Transport channel identity                        |           | Not Present                         |                    | RBS1-104 |
| - Logical channel identity                                  |           | Not Present                         |                    | RBS1-105 |
| - RLC logical channel mapping indicator                     |           | Not Present                         |                    | RBS1-106 |
| - Number of uplink RLC logical channels                     |           | 1                                   |                    | RBS1-107 |
| - Uplink transport channel type                             |           | RACH                                |                    | RBS1-108 |
| - UL Transport channel identity                             |           | Not Present                         |                    | RBS1-109 |
| - Logical channel identity                                  |           | 7                                   |                    | RBS1-110 |
| - CHOICE RLC size list                                      |           | Explicit List                       |                    | RBS1-111 |
| - RLC size index                                            |           | Reference to clause 6 Parameter Set |                    | RBS1-112 |
| - MAC logical channel priority                              |           | 8                                   |                    | RBS1-113 |
| - Downlink RLC logical channel info                         |           |                                     |                    | RBS1-114 |
| - Number of downlink RLC logical channels                   |           | 1                                   |                    | RBS1-115 |
| - Downlink transport channel type                           |           | FACH                                |                    | RBS1-116 |
| - DL DCH Transport channel identity                         |           | Not Present                         |                    | RBS1-117 |
| - DL DSCH Transport channel identity                        |           | Not Present                         |                    | RBS1-118 |
| - Logical channel identity                                  |           | 7                                   |                    | RBS1-119 |
| RAB information to reconfigure list                         |           | Not Present                         | Rel-6              | RBS1-120 |
| RB information to reconfigure list                          |           | Not Present                         | Rel-6              | RBS1-121 |
| RB information to be affected list                          | A1,A3     | Not Present                         |                    | RBS1-122 |
| Downlink counter synchronization info                       |           | Not Present                         |                    | RBS1-123 |
| PDCP ROHC target mode                                       |           | Not Present                         | Rel-5              | RBS1-124 |
| UL Transport channel information for all transport channels | A1,A3     |                                     |                    | RBS1-125 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Value/remark | Version | Index |
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| information<br>- PRACH TFCS<br>- CHOICE mode<br>-Individual UL CCTrCH<br>- UL TFCS Identity<br>- TFCS ID<br>- Shared Channel Indicator<br>- CHOICE TFCI signalling<br>- TFCI Field 1 information<br>- CHOICE TFCS representation<br>- TFCS complete reconfigure<br>information<br>- CHOICE TFCS Size<br>- CTFC information<br>- CHOICE Subset representation<br>- TFC subset list<br>Deleted UL TrCH information list<br>Added or Reconfigured UL TrCH<br>information list<br>- Added or Reconfigured UL TrCH<br>information<br>- Uplink transport channel type<br>- UL Transport channel identity<br>- TFS<br>- CHOICE Transport channel type<br>- Dynamic Transport Format<br>Information<br>- RLC size<br>- Number of TBs and TTI List<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- Transmission Time Interval<br>- Number of Transport blocks<br>- CHOICE Logical channel List<br>- Semi-static Transport Format<br>Information<br>- Transmission time interval<br>- Type of channel coding<br>- Coding Rate<br>- Rate matching attribute<br>- CRC size | A1,A3<br>A1,A3<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><b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|              |         |       |

| Information Element                             | Condition | Value/remark                                                                                                                                 | Version           | Index    |
|-------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|
| Multi-frequency Info                            |           | Not Present                                                                                                                                  | Rel-7             | RBS1-188 |
| DTX-DRX timing information                      |           | Not Present                                                                                                                                  | Rel-7             | RBS1-189 |
| DTX-DRX Information                             |           | Not Present                                                                                                                                  | Rel-7             | RBS1-190 |
| HS-SCCH less Information                        |           | Not Present                                                                                                                                  | Rel-7             | RBS1-191 |
| MIMO parameters                                 |           | Not Present                                                                                                                                  | Rel-7             | RBS1-192 |
| Control Channel DRX information                 |           | Not Present                                                                                                                                  | Rel-8             | RBS1-193 |
| SPS Information                                 |           | Not Present                                                                                                                                  | Rel-8             | RBS1-194 |
| Maximum allowed UL TX power                     |           | 30dBm                                                                                                                                        |                   | RBS1-195 |
| CHOICE channel requirement                      | A1,A3     | Uplink DPCH info                                                                                                                             | Rel-5 and earlier | RBS1-196 |
| Uplink DPCH info                                |           |                                                                                                                                              | Rel-6             | RBS1-197 |
| - Uplink DPCH power control info                |           |                                                                                                                                              |                   | RBS1-198 |
| - CHOICE mode                                   |           | TDD                                                                                                                                          |                   | RBS1-199 |
| - PRX <sub>PDPCHdes</sub>                       |           | Reference to clause 6 Parameter set.                                                                                                         |                   | RBS1-200 |
| - CHOICE UL OL PC info                          |           | Individually signalled                                                                                                                       |                   | RBS1-201 |
| - CHOICE TDD option                             |           | 1.28 Mcps                                                                                                                                    | Rel-4             | RBS1-202 |
| - TPC step size                                 |           | 0 (1 dB)                                                                                                                                     |                   | RBS1-203 |
| - Primary CCPCH Tx Power                        |           | 30 dBm                                                                                                                                       |                   | RBS1-204 |
| - CHOICE mode                                   |           | TDD                                                                                                                                          |                   | RBS1-205 |
| - Uplink Timing Advance Control                 |           | Not Present                                                                                                                                  |                   | RBS1-206 |
| - UL CCTrCH List                                |           |                                                                                                                                              |                   | RBS1-207 |
| - TFCS Id                                       |           | 1                                                                                                                                            |                   | RBS1-208 |
| - PRX <sub>PDPCHdes</sub>                       |           | Reference to clause 6 Parameter set.                                                                                                         |                   | RBS1-209 |
| - Time info                                     |           |                                                                                                                                              |                   | RBS1-210 |
| - Activation time                               |           | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                                             |                   | RBS1-211 |
| - Duration                                      |           | Infinite                                                                                                                                     |                   | RBS1-212 |
| - Common timeslot info                          |           |                                                                                                                                              |                   | RBS1-213 |
| - 2 <sup>nd</sup> interleaving mode             |           | Reference to clause 6 Parameter Set                                                                                                          |                   | RBS1-214 |
| - TFCI coding                                   |           | Reference to clause 6 Parameter Set                                                                                                          |                   | RBS1-215 |
| - Puncturing Limit                              |           | Reference to clause 6 Parameter Set                                                                                                          |                   | RBS1-216 |
| - Repetition Period                             |           | Reference to clause 6 Parameter Set                                                                                                          |                   | RBS1-217 |
| - Repetition Length                             |           | Reference to clause 6 Parameter Set                                                                                                          |                   | RBS1-218 |
| - CHOICE TDD option                             |           | 1.28 Mcps                                                                                                                                    | Rel-4             | RBS1-219 |
| - Dynamic SF usage                              |           |                                                                                                                                              |                   | RBS1-220 |
| - First individual timeslot info                |           |                                                                                                                                              |                   | RBS1-221 |
| - Timeslot number                               |           | The number of an uplink timeslot that has unassigned codes.                                                                                  |                   | RBS1-222 |
| - TFCI existence                                |           | TRUE                                                                                                                                         |                   | RBS1-223 |
| - Midamble shift and burst type                 |           |                                                                                                                                              |                   | RBS1-224 |
| - CHOICE TDD option                             |           | 1.28 Mcps                                                                                                                                    | Rel-4             | RBS1-225 |
| - Midamble allocation mode                      |           | Default                                                                                                                                      |                   | RBS1-226 |
| - Midamble configuration                        |           | 8 (k=16)                                                                                                                                     |                   | RBS1-227 |
| - CHOICE TDD option                             |           | 1.28 Mcps                                                                                                                                    | Rel-4             | RBS1-228 |
| - Modulation                                    |           | QPSK                                                                                                                                         |                   | RBS1-229 |
| - SS-TPC Symbols                                |           | 1                                                                                                                                            |                   | RBS1-230 |
| - CHOICE Mode                                   |           | TDD                                                                                                                                          |                   | RBS1-231 |
| - First timeslot channelisation codes           |           | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set.                                |                   | RBS1-232 |
| - Channelisation code                           |           | (i/SF) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.                                               |                   | RBS1-233 |
| - CHOICE more timeslots                         |           | The presence of this IE depends upon the number of resources specified in clause 6 and the number of slots in which they are being assigned. |                   | RBS1-234 |
| - UL CCTrCH List to Remove                      |           | Not Present                                                                                                                                  |                   | RBS1-236 |
| E-DCH Info                                      |           | Not Present                                                                                                                                  | Rel-6             | RBS1-237 |
| Downlink HS-PDSCH Information                   | A1,A3     | Not Present                                                                                                                                  | Rel-5             | RBS1-238 |
| Downlink information common for all radio links | A1,A3     |                                                                                                                                              |                   | RBS1-239 |
| - Downlink DPCH info common for all RL          |           |                                                                                                                                              |                   | RBS1-240 |
| - Timing indicator                              |           | Maintain                                                                                                                                     |                   | RBS1-241 |
| - CFN-targetSFN frame offset                    |           | Not Present                                                                                                                                  |                   | RBS1-242 |
| - Downlink DPCH power control information       |           |                                                                                                                                              |                   | RBS1-243 |

| Information Element                                                                                                                                                                                                                                                                                                                                        | Condition | Value/remark                                                                                                                                                                                                                                               | Version            | Index                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - CHOICE mode<br>- TPC step size<br>- CHOICE TDD mode<br>- TSTD indicator                                                                                                                                                                                                                                                                                  |           | TDD<br>1 dB<br>1.28 Mcps<br>FALSE                                                                                                                                                                                                                          | Rel-4              | RBS1-244<br>RBS1-245<br>RBS1-246<br>RBS1-247                                                                                                                                                 |
| - Default DPCH Offset Value<br>- MAC-hs reset indicator<br>- Post-verification period                                                                                                                                                                                                                                                                      | A1,A3     | Not Present<br>Not Present<br>Not Present                                                                                                                                                                                                                  | Rel-5<br>Rel-6     | RBS1-248<br>RBS1-249<br>RBS1-250                                                                                                                                                             |
| Downlink information for per radio link list<br>- Downlink information for each radio link<br>- CHOICE mode<br>- Primary CCPCH info<br>- CHOICE TDD option<br>- TSTD indicator<br>- Cell parameters ID<br>- SCTD indicator                                                                                                                                 |           | TDD<br><br>1.28 Mcps<br>FALSE<br>0<br>FALSE                                                                                                                                                                                                                | Rel-4              | RBS1-251<br>RBS1-252<br>RBS1-253<br>RBS1-254<br>RBS1-255<br>RBS1-256<br>RBS1-257<br>RBS1-258                                                                                                 |
| - Cell ID<br>- CHOICE DPCH info<br>- Downlink DPCH info for each RL<br>- CHOICE mode<br>- DL CCTrCH List<br>- TFCS ID<br>- Time info<br>- Activation time<br>- Duration<br>- Common timeslot info<br>- 2 <sup>nd</sup> interleaving mode<br>- TFCI coding<br>- Puncturing limit<br>- Repetition period<br>- Repetition length<br>- Downlink DPCH timeslots |           | Not Present<br>Downlink DPCH info for each RL<br><br>TDD<br><br>1<br><br>(256+CFN-(CFN mod 8 + 8))mod 256<br>Infinite<br><br>Reference to the present document<br>Reference to clause 6 Parameter set<br>Reference to clause 6 Parameter set<br>1<br>Empty | Rel-4<br>Rel-6     | RBS1-259<br>RBS1-260<br>RBS1-261<br>RBS1-262<br>RBS1-263<br>RBS1-264<br>RBS1-265<br>RBS1-266<br>RBS1-267<br>RBS1-268<br>RBS1-269<br>RBS1-270<br>RBS1-271<br>RBS1-272<br>RBS1-273<br>RBS1-274 |
| and codes<br><br>- Individual timeslot info<br>- Timeslot number                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                            |                    | RBS1-275<br>RBS1-276                                                                                                                                                                         |
| burst type<br><br>- TFCI existence<br>- Midamble shift and                                                                                                                                                                                                                                                                                                 |           | The number of a downlink timeslot that has unassigned codes.<br>TRUE                                                                                                                                                                                       |                    | RBS1-277<br>RBS1-278                                                                                                                                                                         |
| - CHOICE TDD option<br>-Midamble Allocation                                                                                                                                                                                                                                                                                                                |           | 1.28 Mcps<br>Default                                                                                                                                                                                                                                       | Rel-4              | RBS1-279<br>RBS1-280                                                                                                                                                                         |
| Mode<br>- Midamble                                                                                                                                                                                                                                                                                                                                         |           | 8 (k=16)                                                                                                                                                                                                                                                   |                    | RBS1-281                                                                                                                                                                                     |
| configuration<br>- Modulation                                                                                                                                                                                                                                                                                                                              |           | QPSK                                                                                                                                                                                                                                                       |                    | RBS1-282                                                                                                                                                                                     |
| - SS-TPC Symbols<br>- First timeslot channelisation                                                                                                                                                                                                                                                                                                        |           | 1                                                                                                                                                                                                                                                          |                    | RBS1-283<br>RBS1-284                                                                                                                                                                         |
| codes<br>- First channelisation code                                                                                                                                                                                                                                                                                                                       |           | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.                                                                                                                                           |                    | RBS1-285                                                                                                                                                                                     |
| - Last channelisation code                                                                                                                                                                                                                                                                                                                                 |           | (j/SF) where j is the highest numbered code that is being assigned in the slot.                                                                                                                                                                            |                    | RBS1-286                                                                                                                                                                                     |
| - Bitmap                                                                                                                                                                                                                                                                                                                                                   |           | Bitmap of the codes that are being assigned in the slot.                                                                                                                                                                                                   |                    | RBS1-287                                                                                                                                                                                     |
| - CHOICE more timeslots                                                                                                                                                                                                                                                                                                                                    |           | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot.                                                                                           |                    | RBS1-288                                                                                                                                                                                     |
| - UL CCTrCH TPC List<br>-SCCPCH information for FACH                                                                                                                                                                                                                                                                                                       |           | Not Present<br>Not Present                                                                                                                                                                                                                                 | R99 and Rel-4 only | RBS1-289<br>RBS1-290                                                                                                                                                                         |
| - E-AGCH Info<br>- CHOICE mode<br>- CHOICE TDD option<br>- E-HICH Information                                                                                                                                                                                                                                                                              |           | Not Present<br>TDD<br>1.28 Mcps<br>Not Present                                                                                                                                                                                                             | Rel-6<br>Rel-7     | RBS1-291<br>RBS1-292<br>RBS1-293<br>RBS1-294                                                                                                                                                 |
| Downlink secondary cell info FDD                                                                                                                                                                                                                                                                                                                           |           | Not Present                                                                                                                                                                                                                                                | Rel-8              | RBS1-295                                                                                                                                                                                     |
| MBMS PL Service Restriction Information                                                                                                                                                                                                                                                                                                                    |           | Not Present                                                                                                                                                                                                                                                | Rel-6              | RBS1-296                                                                                                                                                                                     |

| Condition | Explanation                   |
|-----------|-------------------------------|
| A1        | This IE is needed for CS RAB  |
| A3        | This IE is needed for PS RAB. |

Contents of RADIO BEARER SETUP message: AM or UM (7.68 Mcps TDD)

| Information Element                     | Condition | Value/remark                                                                                                                                                       | Version            | Index    |
|-----------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Message Type                            | A1,A3     | Arbitrarily selects an integer between 0 and 3                                                                                                                     |                    | RBS3-001 |
| RRC transaction identifier              |           |                                                                                                                                                                    |                    | RBS3-002 |
| Integrity check info                    |           |                                                                                                                                                                    |                    | RBS3-003 |
| - message authentication code           |           | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                    | RBS3-004 |
| - RRC message sequence number           |           | SS provides the value of this IE, from its internal counter.                                                                                                       |                    | RBS3-005 |
| Integrity protection mode info          |           | Not Present                                                                                                                                                        |                    | RBS3-006 |
| Ciphering mode info                     |           | Not Present                                                                                                                                                        |                    | RBS3-007 |
| Activation time                         |           | $(256 + \text{CFN} - (\text{CFN} \bmod 8 + 8)) \bmod 256$                                                                                                          |                    | RBS3-008 |
| New U-RNTI                              |           | Not Present                                                                                                                                                        |                    | RBS3-009 |
| New C-RNTI                              |           | Not Present                                                                                                                                                        |                    | RBS3-010 |
| New DSCH-RNTI                           |           | Not Present                                                                                                                                                        | R99 and Rel-4 only | RBS3-011 |
| New H-RNTI                              |           | Not Present                                                                                                                                                        | Rel-5              | RBS3-012 |
| CHOICE mode                             |           | TDD                                                                                                                                                                | Rel-7              | RBS3-013 |
| - New E-RNTI                            |           | Not Present                                                                                                                                                        | Rel-7              | RBS3-014 |
| RRC State indicator                     |           | CELL_DCH                                                                                                                                                           |                    | RBS3-015 |
| UTRAN DRX cycle length coefficient      |           | Not Present                                                                                                                                                        |                    | RBS3-016 |
| CN information info                     |           | Not Present                                                                                                                                                        |                    | RBS3-017 |
| URA identity                            |           | Not Present                                                                                                                                                        |                    | RBS3-018 |
| - Signalling RB information to setup    |           | Not Present                                                                                                                                                        |                    | RBS3-019 |
| - RAB information for setup list        | A1        |                                                                                                                                                                    |                    | RBS3-020 |
| - RAB information for setup             |           |                                                                                                                                                                    |                    | RBS3-021 |
| - RAB info                              |           |                                                                                                                                                                    |                    | RBS3-022 |
| - RAB identity                          |           | 0000 0001B                                                                                                                                                         |                    | RBS3-023 |
|                                         |           | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.                                                                   |                    |          |
| - CN domain identity                    |           | CS domain                                                                                                                                                          |                    | RBS3-024 |
| - NAS Synchronization Indicator         |           | Not Present                                                                                                                                                        |                    | RBS3-025 |
| - Re-establishment timer                |           | UseT314                                                                                                                                                            |                    | RBS3-026 |
| - RB information to setup list          |           |                                                                                                                                                                    |                    | RBS3-027 |
| - RB information to setup               |           |                                                                                                                                                                    |                    | RBS3-028 |
| - RB identity                           |           | 10                                                                                                                                                                 |                    | RBS3-029 |
| - PDCP info                             |           | Not Present                                                                                                                                                        |                    | RBS3-030 |
| - CHOICE RLC info type                  |           | RLC info                                                                                                                                                           |                    | RBS3-031 |
| - CHOICE Uplink RLC mode                |           | TM RLC                                                                                                                                                             |                    | RBS3-032 |
| - Transmission RLC discard              |           | Not Present                                                                                                                                                        |                    | RBS3-033 |
| - Segmentation indication               |           | FALSE                                                                                                                                                              |                    | RBS3-034 |
| - CHOICE Downlink RLC mode              |           | TM RLC                                                                                                                                                             |                    | RBS3-035 |
| - Segmentation indication               |           | FALSE                                                                                                                                                              |                    | RBS3-036 |
| - RB mapping info                       |           |                                                                                                                                                                    |                    | RBS3-037 |
| - Information for each multiplexing     |           |                                                                                                                                                                    |                    | RBS3-038 |
| option                                  |           |                                                                                                                                                                    |                    |          |
| - RLC logical channel mapping           |           | Not Present                                                                                                                                                        |                    | RBS3-039 |
| indicator                               |           |                                                                                                                                                                    |                    |          |
| - Number of uplink RLC logical channels |           | 1                                                                                                                                                                  |                    | RBS3-040 |
|                                         |           |                                                                                                                                                                    |                    |          |
| - Uplink transport channel type         |           | DCH                                                                                                                                                                |                    | RBS3-041 |
| - UL Transport channel identity         |           | 1                                                                                                                                                                  |                    | RBS3-042 |
| - Logical channel identity              |           | Not Present                                                                                                                                                        |                    | RBS3-043 |
| - CHOICE RLC size list                  |           | Configured                                                                                                                                                         |                    | RBS3-044 |
| - MAC logical channel priority          |           | 7                                                                                                                                                                  |                    | RBS3-045 |
| - Downlink RLC logical channel          |           |                                                                                                                                                                    |                    | RBS3-046 |
| info                                    |           |                                                                                                                                                                    |                    |          |
| - Number of downlink RLC logical        |           | 1                                                                                                                                                                  |                    | RBS3-047 |

| Information Element                 | Condition     | Value/remark                                                                                     | Version | Index    |
|-------------------------------------|---------------|--------------------------------------------------------------------------------------------------|---------|----------|
| channels                            | A3            | DCH                                                                                              |         | RBS3-048 |
| - Downlink transport channel type   |               | 6                                                                                                |         | RBS3-049 |
| identity                            |               | Not Present                                                                                      |         | RBS3-050 |
| identity                            |               | Not Present                                                                                      |         | RBS3-051 |
| - Logical channel identity          |               |                                                                                                  |         | RBS3-052 |
| RAB information for setup list      |               |                                                                                                  |         | RBS3-053 |
| - RAB information for setup         |               |                                                                                                  |         | RBS3-054 |
| - RAB info                          |               |                                                                                                  |         |          |
| - RAB identity                      |               | 0000 0101B                                                                                       |         | RBS3-055 |
|                                     |               | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         |          |
| - CN domain identity                | PS domain     | RBS3-056                                                                                         |         |          |
| - NAS Synchronization Indicator     | Not Present   | RBS3-057                                                                                         |         |          |
| - Re-establishment timer            | UseT314       | RBS3-058                                                                                         |         |          |
| - RB information to setup list      |               | RBS3-059                                                                                         |         |          |
| - RB information to setup           |               | RBS3-060                                                                                         |         |          |
| - RB identity                       | 20            | RBS3-061                                                                                         |         |          |
| - PDCP info                         | Not Present   | RBS3-062                                                                                         |         |          |
| - CHOICE RLC info type              | RLC info      | RBS3-063                                                                                         |         |          |
| - CHOICE Uplink RLC mode            | AM RLC        | RBS3-064                                                                                         |         |          |
| - Transmission RLC discard          |               | RBS3-065                                                                                         |         |          |
| - CHOICE SDU discard mode           | No discard    | RBS3-066                                                                                         |         |          |
| - MAX_DAT                           | 15            | RBS3-067                                                                                         |         |          |
| - Transmission window size          | 128           | RBS3-068                                                                                         |         |          |
| - Timer_RST                         | 500           | RBS3-069                                                                                         |         |          |
| - Max_RST                           | 4             | RBS3-070                                                                                         |         |          |
| - Polling info                      |               | RBS3-071                                                                                         |         |          |
| - Timer_poll_prohibit               | 200           | RBS3-072                                                                                         |         |          |
| - Timer_poll                        | 200           | RBS3-073                                                                                         |         |          |
| - Poll_SDU                          | 1             | RBS3-074                                                                                         |         |          |
| - Last transmission PDU poll        | TRUE          | RBS3-075                                                                                         |         |          |
| - Last retransmission PDU poll      | TRUE          | RBS3-076                                                                                         |         |          |
| - Poll_Windows                      | 99            | RBS3-077                                                                                         |         |          |
| - Timer_poll_periodic               | Not Present   | RBS3-078                                                                                         |         |          |
| - CHOICE Downlink RLC mode          | AM RLC        | RBS3-079                                                                                         |         |          |
| - In-sequence delivery              | TRUE          | RBS3-080                                                                                         |         |          |
| - Receiving window size             | 128           | RBS3-081                                                                                         |         |          |
| - Downlink RLC status info          |               | RBS3-082                                                                                         |         |          |
| - Timer_status_prohibit             | 200           | RBS3-083                                                                                         |         |          |
| - Timer_EPC                         | 200           | RBS3-084                                                                                         |         |          |
| - Missing PDU indicator             | TRUE          | RBS3-085                                                                                         |         |          |
| - Timer_STATUS_periodic             | Not Present   | RBS3-086                                                                                         |         |          |
| - RB mapping info                   |               | RBS3-087                                                                                         |         |          |
| - Information for each multiplexing | 2RBMuxOptions | RBS3-088                                                                                         |         |          |
| option                              |               |                                                                                                  |         |          |
| - RLC logical channel mapping       | Not Present   |                                                                                                  |         | RBS3-089 |
| indicator                           |               |                                                                                                  |         |          |
| - Number of uplink RLC logical      | 1             |                                                                                                  |         | RBS3-090 |
| channels                            |               |                                                                                                  |         |          |
| - Uplink transport channel type     | DCH           |                                                                                                  |         | RBS3-091 |
| - UL Transport channel identity     | 1             |                                                                                                  |         | RBS3-092 |
| - Logical channel identity          | Not Present   |                                                                                                  |         | RBS3-093 |
| - CHOICE RLC size list              | Configured    |                                                                                                  |         | RBS3-094 |
| - MAC logical channel priority      | 8             |                                                                                                  |         | RBS3-095 |
| - Downlink RLC logical channel      |               |                                                                                                  |         | RBS3-096 |
| info                                |               |                                                                                                  |         |          |
| - Number of downlink RLC logical    | 1             |                                                                                                  |         | RBS3-097 |
| channels                            |               |                                                                                                  |         |          |
| - Downlink transport channel type   | DCH           |                                                                                                  |         | RBS3-098 |
| - DL DCH Transport channel          | 6             |                                                                                                  |         | RBS3-099 |
| identity                            |               |                                                                                                  |         |          |
| - DL DSCH Transport channel         | Not Present   |                                                                                                  |         | RBS3-100 |
| identity                            |               |                                                                                                  |         |          |
| - Logical channel identity          | Not Present   |                                                                                                  |         | RBS3-101 |
| - RLC logical channel mapping       | Not Present   |                                                                                                  |         | RBS3-102 |

| Information Element                                         | Condition | Value/remark                                                                         | Version | Index    |
|-------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|---------|----------|
| indicator                                                   |           | 1                                                                                    |         | RBS3-103 |
| - Number of uplink RLC logical channels                     |           |                                                                                      |         |          |
| - Uplink transport channel type                             |           | RACH                                                                                 |         | RBS3-104 |
| - UL Transport channel identity                             |           | Not Present                                                                          |         | RBS3-105 |
| - Logical channel identity                                  |           | 7                                                                                    |         | RBS3-106 |
| - CHOICE RLC size list                                      |           | Explicit List                                                                        |         | RBS3-107 |
| - RLC size index                                            |           | Reference to clause 6 Parameter Set                                                  |         | RBS3-108 |
| - MAC logical channel priority                              |           | 8                                                                                    |         | RBS3-109 |
| - Downlink RLC logical channel                              |           |                                                                                      |         | RBS3-110 |
| info                                                        |           |                                                                                      |         |          |
| - Number of downlink RLC logical channels                   |           | 1                                                                                    |         | RBS3-111 |
| - Downlink transport channel type                           |           | FACH                                                                                 |         | RBS3-112 |
| - DL DCH Transport channel                                  |           | Not Present                                                                          |         | RBS3-113 |
| identity                                                    |           |                                                                                      |         |          |
| - DL DSCH Transport channel                                 |           | Not Present                                                                          |         | RBS3-114 |
| identity                                                    |           |                                                                                      |         |          |
| - Logical channel identity                                  |           | Not Present                                                                          |         | RBS3-115 |
| RB information to be affected list                          | A1,A3     | Not Present                                                                          |         | RBS3-116 |
| Downlink counter synchronization info                       |           | Not Present                                                                          |         | RBS3-117 |
| UL Transport channel information for all transport channels | A1,A3     |                                                                                      |         | RBS3-118 |
| - PRACH TFCS                                                |           | Not Present                                                                          |         | RBS3-119 |
| - CHOICE mode                                               |           | TDD                                                                                  |         | RBS3-120 |
| - Individual UL CCTrCH                                      |           |                                                                                      |         | RBS3-121 |
| information                                                 |           |                                                                                      |         |          |
| - TFCS ID                                                   |           | (This IE is repeated for TFC number.)                                                |         | RBS3-122 |
| - Allowed Transport Format                                  |           | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.)                 |         | RBS3-123 |
| combination                                                 |           |                                                                                      |         |          |
| - PRACH TFCS                                                |           | (This IE is repeated for TFC number.)                                                |         | RBS3-124 |
| - CHOICE TFCI signalling                                    |           | Normal                                                                               |         | RBS3-125 |
| - TFCI Field 1 information                                  |           |                                                                                      |         | RBS3-126 |
| - TFCS complete                                             |           |                                                                                      |         | RBS3-127 |
| reconfigure information                                     |           |                                                                                      |         |          |
| - CHOICE TFCS Size                                          |           | Number of used bits must be enough to cover all combinations of CTFC from clauses 6. |         | RBS3-128 |
|                                                             |           | Refer to clause 6 Parameter Set                                                      |         |          |
| - CTFC information                                          |           | Not Present                                                                          |         | RBS3-129 |
| - CHOICE mode                                               |           | TDD                                                                                  |         | RBS3-130 |
| - Individual UL CCTrCH                                      |           | Not Present                                                                          |         | RBS3-131 |
| information                                                 |           |                                                                                      |         |          |
| Deleted UL TrCH information list                            |           | Not Present                                                                          |         | RBS3-132 |
| Added or Reconfigured UL TrCH information list              | A1        | 1                                                                                    |         | RBS3-133 |
| - Added or Reconfigured UL TrCH information                 |           |                                                                                      |         | RBS3-134 |
| - Uplink transport channel type                             |           | DCH                                                                                  |         | RBS3-135 |
| - UL Transport channel identity                             |           | 1                                                                                    |         | RBS3-136 |
| - TFS                                                       |           |                                                                                      |         | RBS3-137 |
| - CHOICE Transport channel type                             |           | Dedicated transport channels                                                         |         | RBS3-138 |
| - Dynamic Transport Format                                  |           |                                                                                      |         | RBS3-139 |
| Information                                                 |           |                                                                                      |         |          |
| - RLC size                                                  |           | Reference to clause 6.10 Parameter Set                                               |         | RBS3-140 |
| - Number of TBs and TTI List                                |           | (This IE is repeated for TFI number.)                                                |         | RBS3-141 |
| - Transmission Time Interval                                |           | Not Present                                                                          |         | RBS3-142 |
| - Number of Transport blocks                                |           | Reference to clause 6.10 Parameter Set                                               |         | RBS3-143 |
| - Transmission Time Interval                                |           | Not Present                                                                          |         | RBS3-144 |
| - Number of Transport blocks                                |           | 1                                                                                    |         | RBS3-145 |
| - CHOICE Logical channel List                               |           | ALL                                                                                  |         | RBS3-146 |
| - Semi-static Transport Format                              |           |                                                                                      |         | RBS3-147 |
| Information                                                 |           |                                                                                      |         |          |
| - Transmission time interval                                |           | Reference to clause 6.10 Parameter Set                                               |         | RBS3-148 |
| - Type of channel coding                                    |           | Reference to clause 6.10 Parameter Set                                               |         | RBS3-149 |
| - Coding Rate                                               |           | Reference to clause 6.10 Parameter Set                                               |         | RBS3-150 |
| - Rate matching attribute                                   |           | Reference to clause 6.10 Parameter Set                                               |         | RBS3-151 |
| - CRC size                                                  |           | Reference to clause 6.10 Parameter Set                                               |         | RBS3-152 |



| Information Element                                               | Condition | Value/remark                                                                 | Version | Index    |
|-------------------------------------------------------------------|-----------|------------------------------------------------------------------------------|---------|----------|
| CHOICE mode                                                       | A1, A3    | TDD (no data)                                                                |         | RBS3-153 |
| DL Transport channel information common for all transport channel | A1,A3     |                                                                              |         | RBS3-154 |
| - SCCPCH TFCS                                                     |           | Not Present                                                                  |         | RBS3-155 |
| - CHOICE mode                                                     |           | TDD                                                                          |         | RBS3-156 |
| - CHOICE DL parameters                                            |           | Independent (Refer to clause 6)                                              |         | RBS3-157 |
| Deleted DL TrCH information list                                  | A1,A3     | Not Present                                                                  |         | RBS3-158 |
| Added or Reconfigured DL TrCH information list                    |           | 1                                                                            |         | RBS3-159 |
| - Added or Reconfigured DL TrCH information                       |           |                                                                              |         | RBS3-160 |
| - Downlink transport channel type                                 |           | DCH                                                                          |         | RBS3-161 |
| - DL Transport channel identity                                   |           | 6                                                                            |         | RBS3-162 |
| - CHOICE DL parameters                                            |           | Same as UL                                                                   |         | RBS3-163 |
| - Uplink transport channel type                                   |           | DCH                                                                          |         | RBS3-164 |
| - UL TrCH identity                                                |           | 1                                                                            |         | RBS3-165 |
| - DCH quality target                                              |           |                                                                              |         | RBS3-166 |
| - BLER Quality value                                              |           | Reference to clause 6                                                        |         | RBS3-167 |
| Frequency info                                                    | A1,A3     | Not Present                                                                  |         | RBS3-168 |
| DTX-DRX timing information                                        |           | Not Present                                                                  | Rel-7   | RBS3-169 |
| DTX-DRX information                                               |           | Not Present                                                                  | Rel-7   | RBS3-170 |
| HS-SCCH less information                                          |           | Not Present                                                                  | Rel-7   | RBS3-171 |
| MIMO parameters                                                   |           | Not Present                                                                  | Rel-7   | RBS3-172 |
| Maximum allowed UL TX power                                       |           | 30dBm                                                                        |         | RBS3-173 |
| CHOICE channel requirement                                        |           | Uplink DPCH info                                                             |         | RBS3-174 |
| - Uplink DPCH power control info                                  |           |                                                                              |         | RBS3-175 |
| - CHOICE mode                                                     |           | TDD                                                                          |         | RBS3-176 |
| - UL Target SIR                                                   |           | Reference to clause 6 Parameter set.                                         |         | RBS3-177 |
| - CHOICE UL OL PC info                                            |           | Individually signalled                                                       |         | RBS3-178 |
| - CHOICE TDD option                                               |           | 7.68 Mcps                                                                    |         | RBS3-179 |
| - Individual timeslot                                             |           |                                                                              |         | RBS3-180 |
| interference info                                                 |           |                                                                              |         |          |
| - Individual timeslot                                             |           |                                                                              |         | RBS3-181 |
| interference                                                      |           |                                                                              |         |          |
| - DPCH Constant Value                                             |           | Values are used for open loop power control, clause 8 in 3GPP TS 25.331 [34] |         | RBS3-182 |
| - CHOICE mode                                                     |           | TDD                                                                          |         | RBS3-183 |
| - Uplink Timing Advance Control                                   |           | Not Present                                                                  |         | RBS3-184 |
| - UL CCTrCH List                                                  |           |                                                                              |         | RBS3-185 |
| - TFCS Id                                                         |           | 1                                                                            |         | RBS3-186 |
| - Time info                                                       |           |                                                                              |         | RBS3-187 |
| - Activation time                                                 |           | (256+CFN-(CFN MOD 8 + 8))MOD 256                                             |         | RBS3-188 |
| - Duration                                                        |           | Infinite                                                                     |         | RBS3-189 |
| - Common timeslot info                                            |           |                                                                              |         | RBS3-190 |
| - 2 <sup>nd</sup> interleaving mode                               |           | Reference to clause 6.11 Parameter Set                                       |         | RBS3-191 |
| - TFCI coding                                                     |           | Reference to clause 6.11 Parameter Set                                       |         | RBS3-192 |
| - Puncturing Limit                                                |           | Reference to clause 6.11 Parameter Set                                       |         | RBS3-193 |
| - Repetition Period                                               |           | Reference to clause 6.11 Parameter Set                                       |         | RBS3-194 |
| - Repetition Length                                               |           | Reference to clause 6.11 Parameter Set                                       |         | RBS3-195 |
| - CHOICE TDD option                                               |           | 7.68 Mcps TDD                                                                | Rel-7   | RBS3-196 |
| - Uplink DPCH timeslots and codes                                 |           |                                                                              | Rel-7   | RBS3-197 |
| VHCR                                                              |           |                                                                              |         |          |
| - Dynamic SF usage                                                |           | TRUE                                                                         |         | RBS3-198 |
| - First individual timeslot info                                  |           |                                                                              |         | RBS3-199 |
| - Timeslot number                                                 |           | The number of an uplink timeslot that has unassigned codes.                  |         | RBS3-200 |
| - TFCI existence                                                  |           | TRUE                                                                         |         | RBS3-201 |
| - Midamble shift and burst                                        |           |                                                                              |         | RBS3-202 |
| type                                                              |           |                                                                              |         |          |
| - CHOICE TDD option                                               |           | 7.68 Mcps TDD                                                                | Rel-7   | RBS3-203 |
| -CHOICE Burst Type                                                |           |                                                                              |         | RBS3-204 |
| -Type 1                                                           |           |                                                                              |         | RBS3-205 |
| -Midamble                                                         |           | Default                                                                      |         | RBS3-206 |
| Allocation Mode                                                   |           |                                                                              |         |          |
| - Midamble                                                        |           | As defined in 3GPP TS 25.221 [28]                                            |         | RBS3-207 |
| configuration burst type 1 and 3                                  |           |                                                                              |         |          |
| - CHOICE TDD option                                               |           | 7.68 Mcps TDD                                                                | Rel-7   | RBS3-208 |

| Information Element                             | Condition | Value/remark                                                                                                                                 | Version | Index    |
|-------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| - First timeslot code list                      |           | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set.                                |         | RBS3-209 |
| - Channelisation code                           |           | (i/SF) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.                                               |         | RBS3-210 |
| - CHOICE more timeslots                         |           | The presence of this IE depends upon the number of resources specified in clause 6 and the number of slots in which they are being assigned. |         | RBS3-211 |
| - UL CCTrCH List to Remove CHOICE Mode          |           | Not Present                                                                                                                                  |         | RBS3-212 |
|                                                 |           | TDD (no data)                                                                                                                                |         | RBS3-213 |
| Downlink HS-PDSCH Information                   | A1,A3     | Not Present                                                                                                                                  | Rel-5   | RBS3-214 |
| Downlink information common for all radio links | A1,A3     | Downlink DPCH info common for all RL                                                                                                         | Rel-6   | RBS3-215 |
| - CHOICE DPCH info                              |           | Maintain                                                                                                                                     |         | RBS3-216 |
| - Timing indicator                              |           | Not Present                                                                                                                                  |         | RBS3-217 |
| - CFN-targetSFN frame offset                    |           |                                                                                                                                              |         | RBS3-218 |
| - Downlink DPCH power control information       |           |                                                                                                                                              |         | RBS3-219 |
| - CHOICE mode                                   |           | TDD                                                                                                                                          |         | RBS3-220 |
| - TPC Step Size                                 |           | 1                                                                                                                                            |         | RBS3-221 |
| - MAC-d HFN initial value                       |           | Not Present                                                                                                                                  |         | RBS3-222 |
| - CHOICE mode                                   |           | TDD                                                                                                                                          |         | RBS3-223 |
| - CHOICE mode                                   |           | TDD                                                                                                                                          |         | RBS3-224 |
| - CHOICE TDD option                             |           | 7.68 Mcps TDD                                                                                                                                | Rel-7   | RBS3-225 |
| - Default DPCH Offset Value                     |           | Not Present                                                                                                                                  |         | RBS3-226 |
| - Mac-hs reset indicator                        |           | Not Present                                                                                                                                  |         | RBS3-227 |
| Downlink information for per radio link list    | A1,A3     |                                                                                                                                              |         | RBS3-228 |
| - Downlink information for each radio link      |           |                                                                                                                                              |         | RBS3-229 |
| - CHOICE mode                                   |           | 7.68 Mcps TDD                                                                                                                                | Rel-7   | RBS3-230 |
| - Primary CCPCH info                            |           |                                                                                                                                              |         | RBS3-231 |
| - CHOICE SyncCase                               |           | Sync Case 1                                                                                                                                  |         | RBS3-232 |
| - Timeslot                                      |           | PCCPCH timeslot                                                                                                                              |         | RBS3-233 |
| - Cell parameters ID                            |           | 0                                                                                                                                            |         | RBS3-234 |
| - SCTD indicator                                |           |                                                                                                                                              |         | RBS3-235 |
| - CHOICE DPCH info                              |           | Downlink DPCH info for each RL                                                                                                               | Rel-6   | RBS3-236 |
| - CHOICE mode                                   |           | TDD                                                                                                                                          |         | RBS3-237 |
| - DL CCTrCH List                                |           |                                                                                                                                              |         | RBS3-238 |
| - TFCS ID                                       |           | 1                                                                                                                                            |         | RBS3-239 |
| - Time info                                     |           |                                                                                                                                              |         | RBS3-240 |
| - Activation time                               |           | (256+CFN-(CFN mod 8 + 8))mod 256                                                                                                             |         | RBS3-241 |
| - Duration                                      |           | infinite                                                                                                                                     |         | RBS3-242 |
| - Common timeslot info                          |           |                                                                                                                                              |         | RBS3-243 |
| - 2 <sup>nd</sup> interleaving mode             |           | Reference to clause 6.11 Parameter Set                                                                                                       |         | RBS3-244 |
| - TFCI coding                                   |           | Reference to clause 6.11 Parameter Set                                                                                                       |         | RBS3-245 |
| - Puncturing limit                              |           | Reference to clause 6.11 Parameter Set                                                                                                       |         | RBS3-246 |
| - Repetition period                             |           | Reference to clause 6.11 Parameter Set                                                                                                       |         | RBS3-247 |
| - Repetition length                             |           | Reference to clause 6.11 Parameter Set                                                                                                       |         | RBS3-248 |
| - Downlink DPCH timeslots and codes VHCR        |           |                                                                                                                                              | Rel-7   | RBS3-249 |
| - Individual timeslot info                      |           |                                                                                                                                              |         | RBS3-250 |
| - Timeslot number                               |           | The number of a downlink timeslot that has unassigned codes.                                                                                 |         | RBS3-251 |
| - TFCI existence                                |           | TRUE                                                                                                                                         |         | RBS3-252 |
| - Midamble shift and burst type                 |           |                                                                                                                                              |         | RBS3-253 |
| - CHOICE TDD option                             |           | 7.68 Mcps TDD                                                                                                                                | Rel-7   | RBS3-254 |
| -CHOICE Burst Type                              |           |                                                                                                                                              |         | RBS3-255 |
| -Type 1                                         |           |                                                                                                                                              |         | RBS3-256 |
| -Midamble                                       |           | Default                                                                                                                                      |         | RBS3-257 |
| Allocation Mode                                 |           |                                                                                                                                              |         |          |
| - Midamble                                      |           | As defined in 3GPP TS 25.221 [28]                                                                                                            |         | RBS3-258 |
| configuration burst type 1 and 3                |           |                                                                                                                                              |         |          |
| - CHOICE TDD option                             |           | 7.68 Mcps                                                                                                                                    | Rel-7   | RBS3-259 |
| - First timeslot channelisation codes VHCR      |           |                                                                                                                                              | Rel-7   | RBS3-260 |
| - First channelisation code                     |           | (i/SF) where i is the lowest numbered code that is                                                                                           |         | RBS3-261 |

| Information Element                     | Condition   | Value/remark                                                                                                                                                     | Version            | Index    |
|-----------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| - Last channelisation code              |             | being assigned and SF is specified in clause 6 Parameter Set..                                                                                                   |                    | RBS3-262 |
| - Bitmap                                |             | (j/SF) where j is the highest numbered code that is being assigned in the slot.                                                                                  |                    | RBS3-263 |
| - CHOICE more timeslots                 |             | Bitmap of the codes that are being assigned in the slot.                                                                                                         |                    | RBS3-264 |
| - UL CCTrCH TPC List                    |             | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. |                    |          |
| - DL CCTrCH List to Remove              | Not Present |                                                                                                                                                                  |                    | RBS3-265 |
| -SCCPCH information for                 | Not Present |                                                                                                                                                                  |                    | RBS3-266 |
| FACH                                    | Not Present |                                                                                                                                                                  | R99 and Rel-4 only | RBS3-267 |
| - E-AGCH Info                           | Not Present |                                                                                                                                                                  | Rel-6              | RBS3-268 |
| - CHOICE E-HICH Information             | Not Present |                                                                                                                                                                  | Rel-6              | RBS3-269 |
| - CHOICE E-RGCH Information             | Not Present |                                                                                                                                                                  | Rel-6              | RBS3-270 |
| MBMS PL Service Restriction Information | Not Present |                                                                                                                                                                  | Rel-5              | RBS3-271 |

| Condition | Explanation                                                                                       |
|-----------|---------------------------------------------------------------------------------------------------|
| A1        | This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is selected. |

## Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)

| Information Element                | Value/remark                                                                                                                                                       | Version | Index    |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                       |                                                                                                                                                                    |         | RBSH-001 |
| RRC transaction identifier         | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBSH-002 |
| Integrity check info               |                                                                                                                                                                    |         | RBSH-003 |
| - message authentication code      | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | RBSH-004 |
| - RRC message sequence number      | SS provides the value of this IE, from its internal counter.                                                                                                       |         | RBSH-005 |
| Integrity protection mode info     | Not Present                                                                                                                                                        |         | RBSH-006 |
| Ciphering mode info                | Not Present                                                                                                                                                        |         | RBSH-007 |
| Activation time                    | Not Present                                                                                                                                                        |         | RBSH-008 |
| New U-RNTI                         | Not Present                                                                                                                                                        |         | RBSH-009 |
| New C-RNTI                         | Not Present                                                                                                                                                        |         | RBSH-010 |
| New H-RNTI                         | '1010 1010 1010 1010'                                                                                                                                              | Rel-5   | RBSH-011 |
| New Primary E-RNTI                 | Not Present                                                                                                                                                        | Rel-6   | RBSH-012 |
| New Secondary E-RNTI               | Not Present                                                                                                                                                        | Rel-6   | RBSH-013 |
| RRC State indicator                | CELL_DCH                                                                                                                                                           |         | RBSH-014 |
| UTRAN DRX cycle length coefficient | Not Present                                                                                                                                                        |         | RBSH-015 |
| CN information info                | Not Present                                                                                                                                                        |         | RBSH-016 |
| URA identity                       | Not Present                                                                                                                                                        |         | RBSH-017 |
| CHOICE specification mode          | Complete specification                                                                                                                                             | Rel-6   | RBSH-018 |
| Signalling RB information to setup | Not Present                                                                                                                                                        |         | RBSH-019 |
| RAB information for setup list     |                                                                                                                                                                    |         | RBSH-020 |
| - RAB information for setup        |                                                                                                                                                                    |         | RBSH-021 |
| - RAB info                         | (high-speed UM DTCH for PS domain)                                                                                                                                 |         | RBSH-022 |
| - RAB identity                     | 0000 0110B                                                                                                                                                         |         | RBSH-023 |
|                                    | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.                                                                   |         |          |
| - CN domain identity               | PS domain                                                                                                                                                          |         | RBSH-024 |
| - NAS Synchronization Indicator    | Not Present                                                                                                                                                        |         | RBSH-025 |
| - Re-establishment timer           | UseT315                                                                                                                                                            |         | RBSH-026 |
| - RB information to setup          |                                                                                                                                                                    |         | RBSH-027 |
| - RB identity                      | 25                                                                                                                                                                 |         | RBSH-028 |
| - PDCP info                        | Not Present                                                                                                                                                        |         | RBSH-029 |
| - CHOICE RLC info type             | RLC info                                                                                                                                                           |         | RBSH-030 |
| - CHOICE Uplink RLC mode           | Not Present                                                                                                                                                        |         | RBSH-031 |
| - CHOICE Downlink RLC mode         | UM RLC                                                                                                                                                             |         | RBSH-032 |
| - DL UM RLC LI size                | 7                                                                                                                                                                  | Rel-5   | RBSH-033 |
| - One sided RLC re-establishment   | FALSE                                                                                                                                                              | Rel-5   | RBSH-034 |

| Information Element                                               | Value/remark                                                                                  | Version | Index    |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------|----------|
| - RB mapping info                                                 |                                                                                               |         | RBSH-035 |
| - Information for each multiplexing option                        | 1 RBMuxOptions                                                                                |         | RBSH-036 |
| - RLC logical channel mapping indicator                           | Not Present                                                                                   |         | RBSH-037 |
| - Downlink RLC logical channel info                               |                                                                                               |         | RBSH-038 |
| - Number of downlink RLC logical channels                         | 1                                                                                             |         | RBSH-039 |
| - Downlink transport channel type                                 | HS-DSCH                                                                                       |         | RBSH-040 |
| - DL DCH Transport channel identity                               | Not Present                                                                                   |         | RBSH-041 |
| - DL DSCH Transport channel identity                              | Not Present                                                                                   |         | RBSH-042 |
| - DL HS-DSCH MAC-d flow identity                                  | 0                                                                                             |         | RBSH-043 |
| - Logical channel identity                                        | Not Present                                                                                   |         | RBSH-044 |
| RB information to reconfigure list                                | Not Present                                                                                   | Rel-6   | RBSH-045 |
| RB information to be affected list                                | Not Present                                                                                   |         | RBSH-046 |
| Downlink counter synchronization info                             | Not Present                                                                                   |         | RBSH-047 |
| PDCP ROHC target mode                                             | Not Present                                                                                   | Rel-5   | RBSH-048 |
| UL Transport channel information for all transport channels       |                                                                                               |         | RBSH-049 |
| - PRACH TFCS                                                      | Not Present                                                                                   |         | RBSH-050 |
| - CHOICE mode                                                     | TDD                                                                                           |         | RBSH-051 |
| - Individual UL CCTrCH information                                |                                                                                               |         | RBSH-052 |
| - UL TFCS Identity                                                |                                                                                               |         | RBSH-053 |
| - TFCS ID                                                         | 1                                                                                             |         | RBSH-054 |
| - Shared Channel Indicator                                        | FALSE                                                                                         |         | RBSH-055 |
| - UL TFCS                                                         |                                                                                               |         | RBSH-056 |
| - CHOICE TFCI signalling                                          | Normal                                                                                        |         | RBSH-057 |
| - TFCI Field 1 information                                        |                                                                                               |         | RBSH-058 |
| - CHOICE TFCS representation                                      | Complete reconfiguration                                                                      |         | RBSH-059 |
| - TFCS complete reconfigure information                           |                                                                                               |         | RBSH-060 |
| - CHOICE CTFC Size                                                | 2 bit CTFC                                                                                    |         | RBSH-061 |
| - CTFC information                                                | 4 TFCs                                                                                        |         | RBSH-062 |
| - CTFC                                                            | Reference to TS 34.122 clause C.2.1 Parameter Set                                             |         | RBSH-063 |
| - Power offset information                                        |                                                                                               |         | RBSH-064 |
| - CHOICE Gain Factors                                             | Computed Gain Factors(The last TFC is set to Signalled Gain Factors)                          |         | RBSH-065 |
| - Reference TFC ID                                                | 0 Integer(0.. 3)                                                                              |         | RBSH-066 |
| - CHOICE Gain Factors                                             | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) |         | RBSH-067 |
| - CHOICE mode                                                     | TDD                                                                                           |         | RBSH-068 |
| - Gain factor $\beta_d$                                           | 8                                                                                             |         | RBSH-069 |
| - Reference TFC ID                                                | 0                                                                                             |         | RBSH-070 |
| - CHOICE mode                                                     | TDD                                                                                           |         | RBSH-071 |
| - TFC subset                                                      | Not Present                                                                                   |         | RBSH-072 |
| - CHOICE Subset representation                                    | Full transport format combination set                                                         |         | RBSH-073 |
| - TFC subset list                                                 |                                                                                               |         | RBSH-074 |
| Deleted UL TrCH information list                                  | Not Present                                                                                   |         | RBSH-075 |
| Added or Reconfigured TrCH information list                       | Not Present                                                                                   |         | RBSH-076 |
| CHOICE mode                                                       | Not Present                                                                                   |         | RBSH-077 |
| DL Transport channel information common for all transport channel |                                                                                               |         | RBSH-078 |
| - SCCPCH TFCS                                                     | Not Present                                                                                   |         | RBSH-079 |
| - CHOICE mode                                                     | TDD                                                                                           |         | RBSH-080 |
| - Individual DL CCTrCH information                                | 1 CCTrCh                                                                                      |         | RBSH-081 |
| - DL TFCS identity                                                | 1                                                                                             |         | RBSH-082 |
| - CHOICE DL parameters                                            | Independent                                                                                   |         | RBSH-083 |
| - DL TFCS                                                         |                                                                                               |         | RBSH-084 |
| - TFCI Field 1 Information                                        |                                                                                               |         | RBSH-085 |
| - CHOICE TFCS representation                                      | Complete reconfiguration                                                                      |         | RBSH-086 |
| - TFCS complete reconfigure                                       |                                                                                               |         | RBSH-087 |
| - CHOICE CTFC Size                                                | 2 bit CTFC                                                                                    |         | RBSH-088 |
| - CTFC information                                                | 4 TFCs                                                                                        |         | RBSH-089 |
| - CTFC                                                            | Reference to TS 34.122 [5] Annex C.3.1 Parameter Set                                          |         | RBSH-090 |
| - Power offset information                                        | Not Present                                                                                   |         | RBSH-091 |
| Deleted DL TrCH information                                       | Not Present                                                                                   |         | RBSH-092 |
| Added or Reconfigured DL TrCH information list                    | 1 TrCHs added                                                                                 |         | RBSH-093 |

| Information Element                         | Value/remark                                                                                             | Version | Index    |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------|---------|----------|
| - Added or Reconfigured DL TrCH information |                                                                                                          |         | RBSH-094 |
| - Downlink transport channel type           | HS-DSCH                                                                                                  | Rel-5   | RBSH-095 |
| - DL Transport channel identity             | Not Present                                                                                              |         | RBSH-096 |
| - CHOICE DL parameters                      | HS-DSCH                                                                                                  | Rel-5   | RBSH-097 |
| - HARQ Info                                 |                                                                                                          | Rel-5   | RBSH-098 |
| - Number of Processes                       | Reference to TS34.122 [5] Annex C.4 Fixed Reference Channels                                             | Rel-5   | RBSH-099 |
| - CHOICE <i>Memory Partitioning</i>         | Explicit                                                                                                 | Rel-5   | RBSH-100 |
| - Memory size                               | Reference to TS34.122 [5] Annex C.4 Fixed Reference Channels parameter "Number of HARQ Processes".       | Rel-5   | RBSH-101 |
| - Process Memory Size                       | Reference to TS34.122 [5] Annex C.4 Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". | Rel-5   | RBSH-102 |
| - Added or reconfigured MAC-d flow          |                                                                                                          | Rel-5   | RBSH-103 |
| - MAC-hs queue to add or reconfigure list   | (one queue)                                                                                              | Rel-5   | RBSH-104 |
| - MAC-hs queue Id                           | 0                                                                                                        | Rel-5   | RBSH-105 |
| - MAC-d Flow Identity                       | 0                                                                                                        | Rel-5   | RBSH-106 |
| - T1                                        | 160                                                                                                      | Rel-5   | RBSH-107 |
| - MAC-hs window size                        | 16                                                                                                       | Rel-5   | RBSH-108 |
| - MAC-d PDU size Info                       |                                                                                                          | Rel-5   | RBSH-109 |
| - MAC-d PDU size                            | Reference to TS34.122 [2] Annex C.4 Fixed Reference Channels                                             | Rel-5   | RBSH-110 |
| - MAC-d PDU size index                      | 0                                                                                                        | Rel-5   | RBSH-111 |
| - MAC-hs queue to delete list               | Not present                                                                                              | Rel-5   | RBSH-112 |
| - DCH quality target                        | Not present                                                                                              |         | RBSH-113 |
| Frequency info                              | Not Present                                                                                              |         | RBSH-114 |
| Maximum allowed UL TX power                 | 30dBm                                                                                                    |         | RBSH-115 |
| CHOICE channel requirement                  | Uplink DPCH info                                                                                         |         | RBSH-116 |
| Uplink DPCH info                            |                                                                                                          | Rel-6   | RBSH-117 |
| - Uplink DPCH power control info            |                                                                                                          |         | RBSH-118 |
| - CHOICE mode                               | TDD                                                                                                      |         | RBSH-119 |
| - UL target SIR                             | Not present                                                                                              |         | RBSH-120 |
| - CHOICE UL OL PC info                      | Broadcast UL OL PC info                                                                                  |         | RBSH-121 |
| - CHOICE mode                               | TDD                                                                                                      |         | RBSH-122 |
| - Uplink Timing Advance Control             |                                                                                                          |         | RBSH-123 |
| - CHOICE Timing Advance                     | Enabled                                                                                                  |         | RBSH-124 |
| - CHOICE TDD option                         | 3.84 Mcps TDD                                                                                            |         | RBSH-125 |
| - UL Timing Advance                         | Determined by observed timing deviation of the RACH at the node B                                        |         | RBSH-126 |
| - UL CCTrCH List                            | 1 CCTrCh                                                                                                 |         | RBSH-127 |
| - TFCS Id                                   | 1                                                                                                        |         | RBSH-128 |
| - UL target SIR                             | +20dB                                                                                                    |         | RBSH-129 |
| - Activation time                           | Not present                                                                                              |         | RBSH-130 |
| - Duration                                  | Not present                                                                                              |         | RBSH-131 |
| - Common timeslot info                      |                                                                                                          |         | RBSH-132 |
| - 2 <sup>nd</sup> interleaving mode         | Reference to TS 34.122 clause C.2.1 Parameter Set                                                        |         | RBSH-133 |
| - TFCI coding                               | Reference to TS 34.122 clause C.2.1 Parameter Set                                                        |         | RBSH-134 |
| - Puncturing Limit                          | Reference to TS 34.122 clause C.2.1 Parameter Set                                                        |         | RBSH-135 |
| - Repetition Period                         | 1                                                                                                        |         | RBSH-136 |
| - Repetition Length                         | 1                                                                                                        |         | RBSH-137 |
| - Uplink DPCH timeslots and codes           |                                                                                                          |         | RBSH-138 |
| - Dynamic SF usage                          | TRUE                                                                                                     |         | RBSH-139 |
| - Timeslot number                           | The number of an uplink timeslot that has unassigned codes.                                              |         | RBSH-140 |
| - TFCI existence                            | TRUE                                                                                                     |         | RBSH-141 |
| - Midamble shift and burst type             |                                                                                                          |         | RBSH-142 |
| - CHOICE TDD option                         | 3.84 Mcps                                                                                                |         | RBSH-143 |
| - CHOICE Burst Type                         | Reference to TS 34.122 clause C.2.1 Parameter Set                                                        |         | RBSH-144 |
| - Midamble Allocation Mode                  | Default                                                                                                  |         | RBSH-145 |
| - Midamble configuration                    | Choose lowest possible Kcell value given burst type                                                      |         | RBSH-146 |
| - CHOICE TDD option                         | 3.84 Mcps TDD                                                                                            |         | RBSH-147 |

| Information Element                             | Value/remark                                                                                                                                                             | Version | Index    |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| - First timeslot Code List                      | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS 34.122 clause C.2.1 Parameter Set.                                              |         | RBSH-148 |
| - Channelisation code                           | (i/SF) where i denotes an unassigned code matching the SF specified in TS 34.122 clause C.2.1 Parameter Set.                                                             |         | RBSH-149 |
| - CHOICE more timeslots                         | The presence of this IE depends upon the number of resources specified in TS 34.122 clause C.2.1 Parameter Set and the number of slots in which they are being assigned. |         | RBSH-150 |
| - UL CCTrCH List to Remove                      | Not present                                                                                                                                                              |         | RBSH-151 |
| E-DCH Info                                      | Not present                                                                                                                                                              | Rel-6   | RBSH-152 |
| Downlink HS-PDSCH Information                   |                                                                                                                                                                          | Rel-5   | RBSH-153 |
| - HS-SCCH Info                                  |                                                                                                                                                                          | Rel-5   | RBSH-154 |
| - CHOICE mode                                   | TDD                                                                                                                                                                      | Rel-5   | RBSH-155 |
| - CHOICE TDD option                             | 3.84 Mcps TDD                                                                                                                                                            | Rel-5   | RBSH-156 |
| - Ack-Nack Power Offset                         | 0dB                                                                                                                                                                      | Rel-5   | RBSH-157 |
| - HS-SICH Power Control Info                    |                                                                                                                                                                          | Rel-5   | RBSH-158 |
| - UL SIR target                                 | 0dB                                                                                                                                                                      | Rel-5   | RBSH-159 |
| - HS-SICH Constant Value                        | -10dB                                                                                                                                                                    | Rel-5   | RBSH-160 |
| - $D_{hs-sync}$                                 | Not present                                                                                                                                                              | Rel-6   | RBSH-161 |
| - HS-SCCH Set Configuration                     | 4                                                                                                                                                                        | Rel-5   | RBSH-162 |
| - Timeslot number                               | The timeslot in which HS-SCCH is to be configured                                                                                                                        | Rel-5   | RBSH-163 |
| - Channelisation code                           | CC16/x where x is a previously unassigned channelisation code in this TS                                                                                                 | Rel-5   | RBSH-164 |
| - Midamble Allocation mode                      | Default                                                                                                                                                                  | Rel-5   | RBSH-165 |
| - Midamble configuration                        | 8                                                                                                                                                                        | Rel-5   | RBSH-166 |
| - BLER target                                   | -2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$ )                                                                                       | Rel-5   | RBSH-167 |
| - HS-SICH configuration                         |                                                                                                                                                                          |         | RBSH-168 |
| - Timeslot number                               | The timeslot in which HS-SICH has been configured                                                                                                                        | Rel-5   | RBSH-169 |
| - Channelisation code                           | CC16/x where x is a previously unassigned channelisation code in this TS                                                                                                 | Rel-5   | RBSH-170 |
| - Midamble Allocation mode                      | Default                                                                                                                                                                  | Rel-5   | RBSH-171 |
| - Midamble configuration                        | 8                                                                                                                                                                        | Rel-5   | RBSH-172 |
| - Measurement Feedback Info                     |                                                                                                                                                                          | Rel-5   | RBSH-173 |
| - CHOICE mode                                   | TDD                                                                                                                                                                      | Rel-5   | RBSH-174 |
| - CHOICE TDD option                             | 3.84 Mcps TDD                                                                                                                                                            | Rel-5   | RBSH-175 |
| - HS-PDSCH Timeslot Configuration               |                                                                                                                                                                          | Rel-5   | RBSH-176 |
| - HS-PDSCH Timeslot Configuration List          | Reference to TS 34.122 clause C.4.1 Parameter Set                                                                                                                        | Rel-5   | RBSH-177 |
| - Timeslot Number                               | The timeslot(s) in which HS-HS-DSCH is to be configured                                                                                                                  | Rel-5   | RBSH-178 |
| - CHOICE Burst Type                             | Reference to TS 34.122 clause C.4.1 Parameter Set                                                                                                                        | Rel-5   | RBSH-179 |
| - Midamble Allocation Mode                      | Default                                                                                                                                                                  | Rel-5   | RBSH-180 |
| - Midamble configuration burst type 1 and 3     | 8                                                                                                                                                                        | Rel-5   | RBSH-181 |
| Downlink information common for all radio links | Not Present                                                                                                                                                              |         | RBSH-182 |
| Downlink information per radio link list        | 1                                                                                                                                                                        |         | RBSH-183 |
| - Downlink information for each radio link      |                                                                                                                                                                          |         | RBSH-184 |
| - Choice mode                                   | TDD                                                                                                                                                                      |         | RBSH-185 |
| - Primary CCPCH info                            |                                                                                                                                                                          |         | RBSH-186 |
| - Choice mode                                   | TDD                                                                                                                                                                      |         | RBSH-187 |
| - CHOICE TDD option                             | 3.84 Mcps TDD                                                                                                                                                            |         | RBSH-188 |
| - CHOICE SyncCase                               | Sync Case 1                                                                                                                                                              |         | RBSH-189 |
| - Timeslot                                      | Set to Timeslot containing PCCPCH                                                                                                                                        |         | RBSH-190 |
| - Cell parameters ID                            | 10                                                                                                                                                                       |         | RBSH-191 |
| - SCTD indicator                                | FALSE                                                                                                                                                                    |         | RBSH-192 |
| - CHOICE DPCH info                              | Downlink DPCH info for each RL                                                                                                                                           |         | RBSH-193 |
| - CHOICE mode                                   | TDD                                                                                                                                                                      |         | RBSH-194 |
| - DL CCTrCH List                                | 1 CCTrCh                                                                                                                                                                 |         | RBSH-195 |
| - TFCS ID                                       | 1                                                                                                                                                                        |         | RBSH-196 |
| - Activation time                               | Not Present                                                                                                                                                              |         | RBSH-197 |
| - Duration                                      | Not Present                                                                                                                                                              |         | RBSH-198 |
| - Common timeslot info                          |                                                                                                                                                                          |         | RBSH-199 |
| - 2nd interleaving mode                         | Reference to TS 34.122 clause C.3.1 Parameter                                                                                                                            |         | RBSH-200 |

| Information Element                     | Value/remark                                                                                                                                                                   | Version | Index    |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| - TFCI coding                           | Set<br>Reference to TS 34.122 clause C.3.1 Parameter Set                                                                                                                       |         | RBSH-201 |
| - Puncturing Limit                      | Reference to TS 34.122 clause C.3.1 Parameter Set                                                                                                                              |         | RBSH-202 |
| - Repetition Period                     | Set<br>Reference to TS 34.122 clause C.3.1 Parameter Set                                                                                                                       |         | RBSH-203 |
| - Repetition Length                     | Set<br>Reference to TS 34.122 clause C.3.1 Parameter Set                                                                                                                       |         | RBSH-204 |
| - Downlink DPCH timeslots and codes     |                                                                                                                                                                                |         | RBSH-205 |
| - Individual timeslot info              |                                                                                                                                                                                |         | RBSH-206 |
| - Timeslot number                       | The number of a downlink timeslot that has unassigned codes.                                                                                                                   |         | RBSH-207 |
| - TFCI existence                        | TRUE                                                                                                                                                                           |         | RBSH-208 |
| - Midamble shift and burst type         |                                                                                                                                                                                |         | RBSH-209 |
| - CHOICE TDD option                     | 3.84 Mcps                                                                                                                                                                      |         | RBSH-210 |
| - CHOICE Burst Type                     | Reference to TS 34.122 clause C.3.1 Parameter Set                                                                                                                              |         | RBSH-211 |
| - Midamble Allocation Mode              | Default                                                                                                                                                                        |         | RBSH-212 |
| - Midamble configuration                | Set Kcell to lowest possible value given the number of codes defined in TS 34.122 clause C.3.1 Parameter Set                                                                   |         | RBSH-213 |
| - CHOICE TDD option                     | 3.84 Mcps                                                                                                                                                                      |         | RBSH-214 |
| - First timeslot channelisation codes   |                                                                                                                                                                                |         | RBSH-215 |
| - CHOICE codes representation           | Consecutive codes                                                                                                                                                              |         | RBSH-216 |
| - First channelisation code             | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS 34.122 clause C.3.1 Parameter Set.                                                 |         | RBSH-217 |
| - Last channelisation code              | (j/SF) where j is the highest numbered code that is being assigned in the slot as specified in TS 34.122 clause C.3.1 Parameter Set.                                           |         | RBSH-218 |
| - CHOICE more timeslots                 | The presence of this IE depends upon whether the requirements of TS 34.122 clause C.3.1 Parameter Set could be met by the codes that have been assigned in the first timeslot. |         | RBSH-219 |
| - UL CCTrCH TPC List                    | No Present                                                                                                                                                                     |         | RBSH-220 |
| - DL CCTrCH List to Remove              | Not Present                                                                                                                                                                    |         | RBSH-221 |
| - E-AGCH Info                           | Not Present                                                                                                                                                                    | Rel-6   | RBSH-222 |
| - CHOICE E-HICH Information             | Not Present                                                                                                                                                                    | Rel-6   | RBSH-223 |
| - CHOICE E-RGCH Information             | Not Present                                                                                                                                                                    | Rel-6   | RBSH-224 |
| MBMS PL Service Restriction Information | Not Present                                                                                                                                                                    | Rel-6   | RBSH-225 |

## Contents of RADIO BEARER SETUP message: AM or UM (HSDPA) (1.28 Mcps TDD)

| Information Element                | Value/remark                                                                                                                                                       | Version | Index    |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                       |                                                                                                                                                                    |         | RBSH-001 |
| RRC transaction identifier         | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBSH-002 |
| Integrity check info               |                                                                                                                                                                    |         | RBSH-003 |
| - message authentication code      | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | RBSH-004 |
| - RRC message sequence number      | SS provides the value of this IE, from its internal counter.                                                                                                       |         | RBSH-005 |
| Integrity protection mode info     | Not Present                                                                                                                                                        |         | RBSH-006 |
| Ciphering mode info                | Not Present                                                                                                                                                        |         | RBSH-007 |
| Activation time                    | Not Present                                                                                                                                                        |         | RBSH-008 |
| New U-RNTI                         | Not Present                                                                                                                                                        |         | RBSH-009 |
| New C-RNTI                         | Not Present                                                                                                                                                        |         | RBSH-010 |
| New H-RNTI                         | '1010 1010 1010 1010'                                                                                                                                              | Rel-5   | RBSH-011 |
| RRC State indicator                | CELL_DCH                                                                                                                                                           |         | RBSH-012 |
| UTRAN DRX cycle length coefficient | Not Present                                                                                                                                                        |         | RBSH-013 |
| CN information info                | Not Present                                                                                                                                                        |         | RBSH-014 |
| URA identity                       | Not Present                                                                                                                                                        |         | RBSH-015 |
| Signalling RB information to setup | Not Present                                                                                                                                                        |         | RBSH-016 |

| Information Element                                         | Value/remark                                                                                                   | Version | Index    |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------|----------|
| RAB information for setup list                              |                                                                                                                |         | RBSH-017 |
| - RAB information for setup                                 |                                                                                                                |         | RBSH-018 |
| - RAB info                                                  | (high-speed UM DTCH for PS domain)                                                                             |         | RBSH-019 |
| - RAB identity                                              | 0000 0110B<br>The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |         | RBSH-020 |
| - CN domain identity                                        | PS domain                                                                                                      |         | RBSH-021 |
| - NAS Synchronization Indicator                             | Not Present                                                                                                    |         | RBSH-022 |
| - Re-establishment timer                                    | UseT315                                                                                                        |         | RBSH-023 |
| - RB information to setup                                   |                                                                                                                |         | RBSH-024 |
| - RB identity                                               | 25                                                                                                             |         | RBSH-025 |
| - PDCP info                                                 | Not Present                                                                                                    |         | RBSH-026 |
| - CHOICE RLC info type                                      | RLC info                                                                                                       |         | RBSH-027 |
| - CHOICE Uplink RLC mode                                    | Not Present                                                                                                    |         | RBSH-028 |
| - CHOICE Downlink RLC mode                                  | UM RLC                                                                                                         |         | RBSH-029 |
| - DL UM RLC LI size                                         | 7                                                                                                              | Rel-5   | RBSH-030 |
| - One sided RLC re-establishment                            | FALSE                                                                                                          | Rel-5   | RBSH-031 |
| - RB mapping info                                           |                                                                                                                |         | RBSH-032 |
| - Information for each multiplexing option                  | 1 RBMuxOptions                                                                                                 |         | RBSH-033 |
| - RLC logical channel mapping indicator                     | Not Present                                                                                                    |         | RBSH-034 |
| - Downlink RLC logical channel info                         |                                                                                                                |         | RBSH-035 |
| - Number of downlink RLC logical channels                   | 1                                                                                                              |         | RBSH-036 |
| - Downlink transport channel type                           | HS-DSCH                                                                                                        |         | RBSH-037 |
| - DL DCH Transport channel identity                         | Not Present                                                                                                    |         | RBSH-038 |
| - DL DSCH Transport channel identity                        | Not Present                                                                                                    |         | RBSH-039 |
| - DL HS-DSCH MAC-d flow identity                            | 0                                                                                                              |         | RBSH-040 |
| - Logical channel identity                                  | Not Present                                                                                                    |         | RBSH-041 |
| RB information to be affected list                          | Not Present                                                                                                    |         | RBSH-042 |
| Downlink counter synchronization info                       | Not Present                                                                                                    |         | RBSH-043 |
| PDCP ROHC target mode                                       | Not Present                                                                                                    | Rel-5   | RBSH-044 |
| UL Transport channel information for all transport channels |                                                                                                                |         | RBSH-045 |
| - PRACH TFCS                                                | Not Present                                                                                                    |         | RBSH-046 |
| - CHOICE mode                                               | TDD                                                                                                            |         | RBSH-047 |
| - Individual UL CCTrCH information                          |                                                                                                                |         | RBSH-048 |
| - UL TFCS Identity                                          |                                                                                                                |         | RBSH-049 |
| - TFCS ID                                                   | 1                                                                                                              |         | RBSH-050 |
| - Shared Channel Indicator                                  | FALSE                                                                                                          |         | RBSH-051 |
| - UL TFCS                                                   |                                                                                                                |         | RBSH-052 |
| - CHOICE TFCI signalling                                    | Normal                                                                                                         |         | RBSH-053 |
| - TFCI Field 1 Information                                  |                                                                                                                |         | RBSH-054 |
| - CHOICE TFCS representation                                | Complete reconfiguration                                                                                       |         | RBSH-055 |
| - TFCS complete reconfiguration information                 |                                                                                                                |         | RBSH-056 |
| - CHOICE CTFC Size                                          | 2 bit CTFC                                                                                                     |         | RBSH-057 |
| - CTFC information                                          | 4 TFCs                                                                                                         |         | RBSH-058 |
| - CTFC                                                      | Reference to clause TS 34.122 clause C.2.1<br>Parameter Set                                                    |         | RBSH-059 |
| - Power offset information                                  |                                                                                                                |         | RBSH-060 |
| - CHOICE Gain Factors                                       | Computed Gain Factors(The last TFC is set to<br>Signalled Gain Factors)                                        |         | RBSH-061 |
| - Reference TFC ID                                          | 0 Integer(0.. 3)                                                                                               |         | RBSH-062 |
| - CHOICE Gain Factors                                       | Signalled Gain Factors(Not Present if the CHOICE<br>Gain Factors is set to ComputedGain Factors)               |         | RBSH-063 |
| - CHOICE mode                                               | TDD                                                                                                            |         | RBSH-064 |
| - Gain Factor $\beta_d$                                     | 15                                                                                                             |         | RBSH-065 |
| - Reference TFC ID                                          | 0 Integer(0.. 3)                                                                                               |         | RBSH-066 |
| - CHOICE mode                                               | TDD                                                                                                            |         | RBSH-067 |
| - TFC subset                                                |                                                                                                                |         | RBSH-068 |
| - CHOICE Subset representation                              | Full transport format combination set                                                                          |         | RBSH-069 |
| - TFC subset list                                           | Not Present                                                                                                    |         | RBSH-070 |
| Deleted UL TrCH information list                            | Not Present                                                                                                    |         | RBSH-071 |
| Added or Reconfigured TrCH information list                 | Not Present                                                                                                    |         | RBSH-072 |
| CHOICE mode                                                 | Not Present                                                                                                    |         | RBSH-073 |



| Information Element                                               | Value/remark                                                               | Version           | Index    |
|-------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------|----------|
| DL Transport channel information common for all transport channel |                                                                            |                   | RBSH-074 |
| - SCCPCH TFCS                                                     | Not Present                                                                |                   | RBSH-075 |
| - CHOICE mode                                                     | TDD                                                                        |                   | RBSH-076 |
| - Individual DL CCTrCH information                                |                                                                            |                   | RBSH-077 |
| - DL TFCS Identity                                                |                                                                            |                   | RBSH-078 |
| - TFCS ID                                                         | 2                                                                          |                   | RBSH-079 |
| - Shared Channel Indicator                                        | FALSE                                                                      |                   | RBSH-080 |
| - CHOICE DL parameters                                            | Explicit                                                                   |                   | RBSH-081 |
| - DL DCH TFCS                                                     |                                                                            |                   | RBSH-082 |
| - CHOICE TFCI Signalling                                          | Normal                                                                     |                   | RBSH-083 |
| - TFCI Field 1 Information                                        |                                                                            |                   | RBSH-084 |
| - CHOICE TFCS representation                                      | Complete reconfiguration                                                   |                   | RBSH-085 |
| - TFCS complete reconfigure                                       |                                                                            |                   | RBSH-086 |
| - CHOICE CTFC Size                                                | 2 bit CTFC                                                                 |                   | RBSH-087 |
| - CTFC information                                                | 4 TFCs                                                                     |                   | RBSH-088 |
| - CTFC                                                            | Reference to clause TS 34.122 clause C.2.1 Parameter Set                   |                   | RBSH-089 |
| - Power offset information                                        | Not Present                                                                |                   | RBSH-090 |
| Deleted DL TrCH information                                       | Not Present                                                                |                   | RBSH-091 |
| Added or Reconfigured DL TrCH information list                    | 1 TrCHs added                                                              |                   | RBSH-092 |
| - Added or Reconfigured DL TrCH information                       | (HS-DSCH for DTCH)                                                         |                   | RBSH-093 |
| - Downlink transport channel type                                 | HS-DSCH                                                                    | Rel-5             | RBSH-094 |
| - DL Transport channel identity                                   | Not Present                                                                |                   | RBSH-095 |
| - CHOICE DL parameters                                            | HS-DSCH                                                                    |                   | RBSH-096 |
| - HARQ Info                                                       |                                                                            | Rel-5             | RBSH-097 |
| - Number of Processes                                             | Reference to TS34.122 [5] Annex C Fixed Reference Channels                 |                   | RBSH-098 |
| - CHOICE <i>Memory Partitioning</i>                               | Implicit                                                                   |                   | RBSH-099 |
| - Added or reconfigured MAC-d flow                                |                                                                            |                   | RBSH-100 |
| - MAC-hs queue to add or reconfigure list                         | (one queue)                                                                | Rel-5             | RBSH-101 |
| - MAC-hs queue Id                                                 | 0                                                                          |                   | RBSH-102 |
| - MAC-d Flow Identity                                             | 0                                                                          |                   | RBSH-103 |
| - T1                                                              | 50                                                                         |                   | RBSH-104 |
| - MAC-hs window size                                              | 16                                                                         |                   | RBSH-105 |
| - MAC-d PDU size Info                                             |                                                                            |                   | RBSH-106 |
| - MAC-d PDU size                                                  | Reference to TS34.122 [5] Annex C Fixed Reference Channels                 |                   | RBSH-107 |
| - MAC-d PDU size index                                            | 0                                                                          |                   | RBSH-108 |
| - MAC-hs queue to delete list                                     | Not present                                                                |                   | RBSH-109 |
| - DCH quality target                                              | Not present                                                                |                   | RBSH-110 |
| Frequency info                                                    | Not Present                                                                |                   | RBSH-111 |
| Maximum allowed UL TX power                                       | 33dBm                                                                      |                   | RBSH-112 |
| CHOICE channel requirement                                        | Uplink DPCH info                                                           | Rel-5 and earlier | RBSH-113 |
| - Uplink DPCH power control info                                  |                                                                            |                   | RBSH-114 |
| - CHOICE mode                                                     | TDD                                                                        |                   | RBSH-115 |
| - CHOICE TDD option                                               | 1.28 Mcps TDD                                                              |                   | RBSH-116 |
| - PRXPDPCHdes                                                     | Integer (-120...-58 by step of 1)                                          |                   | RBSH-117 |
| - CHOICE <i>UL OL PC info</i>                                     |                                                                            |                   | RBSH-118 |
| - Broadcast UL OL PC info                                         | Null                                                                       |                   | RBSH-119 |
| - Uplink Timing Advance Control                                   | Not Present                                                                |                   | RBSH-120 |
| - UL CCTrCH List                                                  |                                                                            |                   | RBSH-121 |
| - TFCS ID                                                         | 1                                                                          |                   | RBSH-122 |
| - UL Target SIR                                                   | Real (-11 .. 20 by step of 0.5 dB)<br>Reference to clause 6 Parameter set. |                   | RBSH-123 |
| - Time info                                                       |                                                                            |                   | RBSH-124 |
| - Activation time                                                 | (256+CFN-(CFN MOD 8 + 8))MOD 256                                           |                   | RBSH-125 |
| - Duration                                                        | Infinite                                                                   |                   | RBSH-126 |
| - Common timeslot info                                            |                                                                            |                   | RBSH-127 |
| - 2 <sup>nd</sup> interleaving mode                               | Default value is "Frame"                                                   |                   | RBSH-128 |
| - TFCI coding                                                     | Reference to clause 6 Parameter set                                        |                   | RBSH-129 |
| - Puncturing limit                                                | Reference to clause 6 Parameter set                                        |                   | RBSH-130 |

| Information Element              | Value/remark                                                                                                  | Version            | Index    |
|----------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------|----------|
| - Repetition period              | 1                                                                                                             |                    | RBSH-131 |
| - Repetition length              |                                                                                                               |                    | RBSH-132 |
| - Uplink DPCH timeslots and code |                                                                                                               |                    | RBSH-133 |
| - Dynamic SF usage               | FALSE                                                                                                         |                    | RBSH-134 |
| - First individual timeslot info |                                                                                                               |                    | RBSH-135 |
| - Timeslot number                |                                                                                                               |                    | RBSH-136 |
| - CHOICE TDD option              | 1.28 Mcps TDD                                                                                                 |                    | RBSH-137 |
| - Timeslot number                | 1 OR 2 OR 3                                                                                                   |                    | RBSH-138 |
| - TFCI existence                 | TRUE                                                                                                          |                    | RBSH-139 |
| - Midamble shift and burst type  |                                                                                                               |                    | RBSH-140 |
| - CHOICE TDD option              | 1.28 Mcps TDD                                                                                                 |                    | RBSH-141 |
| - Midamble allocation mode       | Default midamble                                                                                              |                    | RBSH-142 |
| - Midamble configuration         | 16                                                                                                            |                    | RBSH-143 |
| - Midamble Shift                 | Not Present                                                                                                   |                    | RBSH-144 |
| - CHOICE TDD option              | 1.28 Mcps TDD                                                                                                 |                    | RBSH-145 |
| - Modulation                     | QPSK                                                                                                          |                    | RBSH-146 |
| - SS-TPC Symbols                 | 1                                                                                                             |                    | RBSH-147 |
| - Additional TPC-SS Symbols      | Not present                                                                                                   |                    | RBSH-148 |
| - First timeslot Code List       | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |                    | RBSH-149 |
| - channelisation codes           | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.               |                    | RBSH-150 |
| - CHOICE more timeslots          | No more timeslots                                                                                             |                    | RBSH-151 |
| - UL CCTrCH List to Remove       | Not present                                                                                                   |                    | RBSH-152 |
| CHOICE Mode                      | TDD                                                                                                           | R99 and Rel-4 only | RBSH-153 |
| - Downlink PDSCH information     | Not Present                                                                                                   | R99 and Rel-4 only | RBSH-154 |
| Downlink HS-PDSCH Information    |                                                                                                               |                    | RBSH-155 |
| - HS-SCCH Info                   |                                                                                                               |                    | RBSH-156 |
| - CHOICE mode                    | TDD                                                                                                           |                    | RBSH-157 |
| - CHOICE TDD option              | 1.28 Mcps                                                                                                     |                    | RBSH-158 |
| - HS-SCCH Set Configuration      |                                                                                                               |                    | RBSH-159 |
| - Timeslot number                | 0                                                                                                             |                    | RBSH-160 |
| - First Channelisation code      | (16/5)                                                                                                        |                    | RBSH-161 |
| - Second Channelisation code     | (16/6)                                                                                                        |                    | RBSH-162 |
| - Midamble Allocation mode       | Default midamble                                                                                              |                    | RBSH-163 |
| - Midamble configuration         | 8                                                                                                             |                    | RBSH-164 |
| - BLER target                    | -2.0                                                                                                          |                    | RBSH-165 |
| - HS-SICH configuration          |                                                                                                               |                    | RBSH-166 |
| - Timeslot number                | 1                                                                                                             |                    | RBSH-167 |
| - Channelisation code            | (16/11)                                                                                                       |                    | RBSH-168 |
| - Midamble Allocation mode       | Default midamble                                                                                              |                    | RBSH-169 |
| - Midamble configuration         | 8                                                                                                             |                    | RBSH-170 |
| - Ack-Nack Power Offset          | 0                                                                                                             |                    | RBSH-171 |
| - PRX <sub>HS-SICH</sub>         |                                                                                                               |                    | RBSH-172 |
| - TPC step size                  | 1dB                                                                                                           |                    | RBSH-173 |
| - Timeslot number                | 0                                                                                                             |                    | RBSH-174 |
| - First Channelisation code      | (16/7)                                                                                                        |                    | RBSH-175 |
| - Second Channelisation code     | (16/8)                                                                                                        |                    | RBSH-176 |
| - Midamble Allocation mode       | Default midamble                                                                                              |                    | RBSH-177 |
| - Midamble configuration         | 8                                                                                                             |                    | RBSH-178 |
| - BLER target                    | -2.0                                                                                                          |                    | RBSH-179 |
| - HS-SICH configuration          |                                                                                                               |                    | RBSH-180 |
| - Timeslot number                | 1                                                                                                             |                    | RBSH-181 |
| - Channelisation code            | (16/12)                                                                                                       |                    | RBSH-182 |
| - Midamble Allocation mode       | Default midamble                                                                                              |                    | RBSH-183 |
| - Midamble configuration         | 8                                                                                                             |                    | RBSH-184 |
| - Ack-Nack Power Offset          | 0                                                                                                             |                    | RBSH-185 |
| - PRX <sub>HS-SICH</sub>         |                                                                                                               |                    | RBSH-186 |
| - TPC step size                  | 1dB                                                                                                           |                    | RBSH-187 |

| Information Element                             | Value/remark                                                                                                  | Version | Index    |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------|----------|
| - Timeslot number                               | 0                                                                                                             |         | RBSH-188 |
| - First Channelisation code                     | (16/9)                                                                                                        |         | RBSH-189 |
| - Second Channelisation code                    | (16/10)                                                                                                       |         | RBSH-190 |
| - Midamble Allocation mode                      | Default midamble                                                                                              |         | RBSH-191 |
| - Midamble configuration                        | 8                                                                                                             |         | RBSH-192 |
| - BLER target                                   | -2.0                                                                                                          |         | RBSH-193 |
| - HS-SICH configuration                         |                                                                                                               |         | RBSH-194 |
| - Timeslot number                               | 1                                                                                                             |         | RBSH-195 |
| - Channelisation code                           | (16/13)                                                                                                       |         | RBSH-196 |
| - Midamble Allocation mode                      | Default midamble                                                                                              |         | RBSH-197 |
| - Midamble configuration                        | 8                                                                                                             |         | RBSH-198 |
| - Ack-Nack Power Offset                         | 0                                                                                                             |         | RBSH-199 |
| - PRX <sub>HS-SICH</sub>                        |                                                                                                               |         | RBSH-200 |
| - TPC step size                                 | 1dB                                                                                                           |         | RBSH-201 |
| - Timeslot number                               | 0                                                                                                             |         | RBSH-202 |
| - First Channelisation code                     | (16/11)                                                                                                       |         | RBSH-203 |
| - Second Channelisation code                    | (16/12)                                                                                                       |         | RBSH-204 |
| - Midamble Allocation mode                      | Default midamble                                                                                              |         | RBSH-205 |
| - Midamble configuration                        | 8                                                                                                             |         | RBSH-206 |
| - BLER target                                   | -2.0                                                                                                          |         | RBSH-207 |
| - HS-SICH configuration                         |                                                                                                               |         | RBSH-208 |
| - Timeslot number                               | 1                                                                                                             |         | RBSH-209 |
| - Channelisation code                           | (16/14)                                                                                                       |         | RBSH-210 |
| - Midamble Allocation mode                      | Default midamble                                                                                              |         | RBSH-211 |
| - Midamble configuration                        | 8                                                                                                             |         | RBSH-212 |
| - Ack-Nack Power Offset                         | 0                                                                                                             |         | RBSH-213 |
| - PRX <sub>HS-SICH</sub>                        |                                                                                                               |         | RBSH-214 |
| - TPC step size                                 | 1dB                                                                                                           |         | RBSH-215 |
| Downlink information common for all radio links | Not Present                                                                                                   |         | RBSH-216 |
| Downlink information per radio link list        |                                                                                                               |         | RBSH-217 |
| - Downlink information for each radio link      |                                                                                                               |         | RBSH-218 |
| - CHOICE mode                                   | TDD                                                                                                           |         | RBSH-219 |
| - Downlink information for each radio link      |                                                                                                               |         | RBSH-220 |
| - Choice mode                                   | 2 Integer(1.8)                                                                                                |         | RBSH-221 |
| - Primary CCPCH info                            |                                                                                                               |         | RBSH-222 |
| - Choice mode                                   | Now                                                                                                           |         | RBSH-223 |
| - Choice TDD Option                             | Infinite                                                                                                      |         | RBSH-224 |
| - TSTD indicator                                |                                                                                                               |         | RBSH-225 |
| - Cell parameters ID                            | Default value is "Frame"                                                                                      |         | RBSH-226 |
| - SCTD indicator                                | Reference to clause 6 Parameter set                                                                           |         | RBSH-227 |
| - Downlink DPCH info for each RL                | Reference to clause 6 Parameter set                                                                           |         | RBSH-228 |
| - CHOICE mode                                   | 1                                                                                                             |         | RBSH-229 |
| - DL CCTrCh List                                | NULL                                                                                                          |         | RBSH-230 |
| - TFCS ID                                       |                                                                                                               |         | RBSH-231 |
| - Time info                                     |                                                                                                               |         | RBSH-232 |
| - Activation time                               |                                                                                                               |         | RBSH-233 |
| - Duration                                      | 1.28 Mcps TDD                                                                                                 |         | RBSH-234 |
| - Common timeslot info                          | 4 OR 5 OR 6                                                                                                   |         | RBSH-235 |
| - 2 <sup>nd</sup> interleaving mode             | TRUE                                                                                                          |         | RBSH-236 |
| - TFCI coding                                   |                                                                                                               |         | RBSH-237 |
| - Puncturing limit                              | 1.28 Mcps TDD                                                                                                 |         | RBSH-238 |
| - Repetition period                             | Default midamble                                                                                              |         | RBSH-239 |
| - Repetition length                             | 16                                                                                                            |         | RBSH-240 |
| - Downlink DPCH timeslots and codes             | Not Present                                                                                                   |         | RBSH-241 |
| - First individual timeslot info                | 1.28 Mcps TDD                                                                                                 |         | RBSH-242 |
| - Timeslot number                               | QPSK                                                                                                          |         | RBSH-243 |
| - CHOICE TDD option                             | 1                                                                                                             |         | RBSH-244 |
| - Timeslot number                               | Not present                                                                                                   |         | RBSH-245 |
| - TFCI existence                                | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |         | RBSH-246 |
| - Midamble shift and burst type                 |                                                                                                               |         | RBSH-247 |
| - CHOICE TDD option                             | Reference to clause 6.11 Parameter Set                                                                        |         | RBSH-248 |

| Information Element                   | Value/remark                                                                | Version            | Index    |
|---------------------------------------|-----------------------------------------------------------------------------|--------------------|----------|
| - Midamble allocation mode            | No more timeslots                                                           |                    | RBSH-249 |
| - Midamble configuration              | This list is not required for 1.28 Mcps TDD and is to be ignored by the UE. |                    | RBSH-250 |
| - Midamble Shift                      |                                                                             |                    | RBSH-251 |
| - CHOICE TDD option                   | 1                                                                           |                    | RBSH-252 |
| - Modulation                          | FALSE                                                                       |                    | RBSH-253 |
| - SS-TPC Symbols                      | Not present                                                                 |                    | RBSH-254 |
| - Additional TPC-SS Symbols           | Not Present                                                                 |                    | RBSH-255 |
| - First timeslot channelisation codes | TDD                                                                         |                    | RBSH-256 |
| - CHOICE codes representation         |                                                                             |                    | RBSH-257 |
| - Channelisation codes bitmap         | 2 Integer(1.8)                                                              |                    | RBSH-258 |
| - CHOICE more timeslots               |                                                                             |                    | RBSH-259 |
| - UL CCTrCH TPC List                  | Now                                                                         |                    | RBSH-260 |
| - UL TPC TFCS Identity                | Infinite                                                                    |                    | RBSH-261 |
| - TFCS ID                             |                                                                             |                    | RBSH-262 |
| - Shared Channel Indicator            | Default value is "Frame"                                                    |                    | RBSH-263 |
| - DL CCTrCH List to Remove            | Reference to clause 6 Parameter set                                         |                    | RBSH-264 |
| - SCCPCH Information for FACH         | Reference to clause 6 Parameter set                                         | R99 and Rel-4 only | RBSH-265 |

## Contents of RADIO BEARER SETUP message: AM or UM (HSDPA) (7.68 Mcps TDD)

| Information Element                        | Value/remark                                                                                                                                                       | Version        | Index    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Message Type                               |                                                                                                                                                                    |                | RBS7-001 |
| RRC transaction identifier                 | Arbitrarily selects an integer between 0 and 3                                                                                                                     |                | RBS7-002 |
| Integrity check info                       |                                                                                                                                                                    |                | RBS7-003 |
| - message authentication code              | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |                | RBS7-004 |
| - RRC message sequence number              | SS provides the value of this IE, from its internal counter.                                                                                                       |                | RBS7-005 |
| Integrity protection mode info             | Not Present                                                                                                                                                        |                | RBS7-006 |
| Ciphering mode info                        | Not Present                                                                                                                                                        |                | RBS7-007 |
| Activation time                            | Not Present                                                                                                                                                        |                | RBS7-008 |
| New U-RNTI                                 | Not Present                                                                                                                                                        |                | RBS7-009 |
| New C-RNTI                                 | Not Present                                                                                                                                                        |                | RBS7-010 |
| New H-RNTI                                 | '1010 1010 1010 1010'                                                                                                                                              | Rel-5          | RBS7-011 |
| CHOICE mode                                | TDD                                                                                                                                                                | Rel-7          | RBS7-012 |
| New E-RNTI                                 | Not Present                                                                                                                                                        | Rel-7          | RBS7-013 |
| RRC State indicator                        | CELL_DCH                                                                                                                                                           |                | RBS7-014 |
| UTRAN DRX cycle length coefficient         | Not Present                                                                                                                                                        |                | RBS7-015 |
| CN information info                        | Not Present                                                                                                                                                        |                | RBS7-016 |
| URA identity                               | Not Present                                                                                                                                                        |                | RBS7-017 |
| CHOICE specification mode                  | Complete specification                                                                                                                                             | Rel-6          | RBS7-018 |
| Signalling RB information to setup         | Not Present                                                                                                                                                        |                | RBS7-019 |
| RAB information for setup list             |                                                                                                                                                                    |                | RBS7-020 |
| - RAB information for setup                |                                                                                                                                                                    |                | RBS7-021 |
| - RAB info                                 | (high-speed UM DTCH for PS domain)<br>0000 0110B                                                                                                                   |                | RBS7-022 |
| - RAB identity                             | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity.                                                                   |                | RBS7-023 |
| - CN domain identity                       | PS domain                                                                                                                                                          |                | RBS7-024 |
| - NAS Synchronization Indicator            | Not Present                                                                                                                                                        |                | RBS7-025 |
| - Re-establishment timer                   | UseT315                                                                                                                                                            |                | RBS7-026 |
| - RB information to setup                  |                                                                                                                                                                    |                | RBS7-027 |
| - RB identity                              | 25                                                                                                                                                                 |                | RBS7-028 |
| - PDCP info                                | Not Present                                                                                                                                                        |                | RBS7-029 |
| - CHOICE RLC info type                     | RLC info                                                                                                                                                           |                | RBS7-030 |
| - CHOICE Uplink RLC mode                   | Not Present                                                                                                                                                        |                | RBS7-031 |
| - CHOICE Downlink RLC mode                 | UM RLC                                                                                                                                                             |                | RBS7-032 |
| - DL UM RLC LI size                        | 7                                                                                                                                                                  |                | RBS7-033 |
| - One sided RLC re-establishment           | FALSE                                                                                                                                                              | Rel-5<br>Rel-5 | RBS7-034 |
| - RB mapping info                          |                                                                                                                                                                    |                | RBS7-035 |
| - Information for each multiplexing option | 1 RBMuxOptions                                                                                                                                                     |                | RBS7-036 |

| Information Element                                               | Value/remark                                                                                  | Version | Index    |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------|----------|
| - RLC logical channel mapping indicator                           | Not Present                                                                                   |         | RBS7-037 |
| - Downlink RLC logical channel info                               |                                                                                               |         | RBS7-038 |
| - Number of downlink RLC logical channels                         | 1                                                                                             |         | RBS7-039 |
| - Downlink transport channel type                                 | HS-DSCH                                                                                       |         | RBS7-040 |
| - DL DCH Transport channel identity                               | Not Present                                                                                   |         | RBS7-041 |
| - DL DSCH Transport channel identity                              | Not Present                                                                                   |         | RBS7-042 |
| - DL HS-DSCH MAC-d flow identity                                  | 0                                                                                             |         | RBS7-043 |
| - Logical channel identity                                        | Not Present                                                                                   |         | RBS7-044 |
| RB information to reconfigure list                                | Not Present                                                                                   | Rel-6   | RBS7-045 |
| RB information to be affected list                                | Not Present                                                                                   |         | RBS7-046 |
| Downlink counter synchronization info                             | Not Present                                                                                   |         | RBS7-047 |
| PDCP ROHC target mode                                             | Not Present                                                                                   | Rel-5   | RBS7-048 |
| UL Transport channel information for all transport channels       |                                                                                               |         | RBS7-049 |
| - PRACH TFCS                                                      | Not Present                                                                                   |         | RBS7-050 |
| - CHOICE mode                                                     | TDD                                                                                           |         | RBS7-051 |
| - Individual UL CCTrCH information                                |                                                                                               |         | RBS7-052 |
| - UL TFCS Identity                                                |                                                                                               |         | RBS7-053 |
| - TFCS ID                                                         | 1                                                                                             |         | RBS7-054 |
| - Shared Channel Indicator                                        | FALSE                                                                                         |         | RBS7-055 |
| - UL TFCS                                                         |                                                                                               |         | RBS7-056 |
| - CHOICE TFCS signalling                                          | Normal                                                                                        |         | RBS7-057 |
| - TFCS Field 1 information                                        |                                                                                               |         | RBS7-058 |
| - CHOICE TFCS representation                                      | Complete reconfiguration                                                                      |         | RBS7-059 |
| - TFCS complete reconfigure information                           |                                                                                               |         | RBS7-060 |
| - CHOICE CTFC Size                                                | 2 bit CTFC                                                                                    |         | RBS7-061 |
| - CTFC information                                                | 4 TFCS                                                                                        |         | RBS7-062 |
| - CTFC                                                            | Reference to TS 34.122 clause C.2.1 Parameter Set                                             |         | RBS7-063 |
| - Power offset information                                        |                                                                                               |         | RBS7-064 |
| - CHOICE Gain Factors                                             | Computed Gain Factors(The last TFC is set to Signalled Gain Factors)                          |         | RBS7-065 |
| - Reference TFC ID                                                | 0 Integer(0.. 3)                                                                              |         | RBS7-066 |
| - CHOICE Gain Factors                                             | Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) |         | RBS7-067 |
| - CHOICE mode                                                     | TDD                                                                                           |         | RBS7-068 |
| - Gain factor $\beta_d$                                           | 8                                                                                             |         | RBS7-069 |
| - Reference TFC ID                                                | (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)                      |         | RBS7-070 |
| - CHOICE mode                                                     | 0                                                                                             |         | RBS7-071 |
| - TFC subset                                                      | TDD                                                                                           |         | RBS7-072 |
| - CHOICE Subset representation                                    | Not Present                                                                                   |         | RBS7-073 |
| - TFC subset list                                                 | Full transport format combination set                                                         |         | RBS7-074 |
| Deleted UL TrCH information list                                  | Not Present                                                                                   |         | RBS7-075 |
| Added or Reconfigured TrCH information list                       | Not Present                                                                                   |         | RBS7-076 |
| CHOICE mode                                                       | Not Present                                                                                   |         | RBS7-077 |
| DL Transport channel information common for all transport channel |                                                                                               |         | RBS7-078 |
| - SCCPCH TFCS                                                     | Not Present                                                                                   |         | RBS7-079 |
| - CHOICE mode                                                     | TDD                                                                                           |         | RBS7-080 |
| - Individual DL CCTrCH information                                | 1 CCTrCh                                                                                      |         | RBS7-081 |
| - DL TFCS identity                                                | 1                                                                                             |         | RBS7-082 |
| - CHOICE DL parameters                                            | Independent                                                                                   |         | RBS7-083 |
| - DL TFCS                                                         |                                                                                               |         | RBS7-084 |
| - TFCS Field 1 Information                                        |                                                                                               |         | RBS7-085 |
| - CHOICE TFCS representation                                      | Complete reconfiguration                                                                      |         | RBS7-086 |
| - TFCS complete reconfigure                                       |                                                                                               |         | RBS7-087 |
| - CHOICE CTFC Size                                                | 2 bit CTFC                                                                                    |         | RBS7-088 |
| - CTFC information                                                | 4 TFCS                                                                                        |         | RBS7-089 |
| - CTFC                                                            | Reference to TS 34.122 [5] Annex C.3.1 Parameter Set                                          |         | RBS7-090 |
| - Power offset information                                        | Not Present                                                                                   |         | RBS7-091 |
| Deleted DL TrCH information                                       | Not Present                                                                                   |         | RBS7-092 |
| Added or Reconfigured DL TrCH information list                    | 1 TrCHs added                                                                                 |         | RBS7-093 |
| - Added or Reconfigured DL TrCH information                       |                                                                                               |         | RBS7-094 |
| - Downlink transport channel type                                 | HS-DSCH                                                                                       | Rel-5   | RBS7-095 |

| Information Element                       | Value/remark                                                                                             | Version | Index    |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------|---------|----------|
| - DL Transport channel identity           | Not Present                                                                                              |         | RBS7-096 |
| - CHOICE DL parameters                    | HS-DSCH                                                                                                  | Rel-5   | RBS7-097 |
| - HARQ Info                               |                                                                                                          | Rel-5   | RBS7-098 |
| - Number of Processes                     | Reference to TS34.122 [5] Annex C.4 Fixed Reference Channels                                             | Rel-5   | RBS7-099 |
| - CHOICE <i>Memory Partitioning</i>       | Explicit                                                                                                 | Rel-5   | RBS7-100 |
| - Memory size                             | Reference to TS34.122 [5] Annex C.4 Fixed Reference Channels parameter "Number of HARQ Processes".       | Rel-5   | RBS7-101 |
| - Process Memory Size                     | Reference to TS34.122 [5] Annex C.4 Fixed Reference Channels parameter "Number of SML's per HARQ Proc.". | Rel-5   | RBS7-102 |
| - Added or reconfigured MAC-d flow        |                                                                                                          | Rel-5   | RBS7-103 |
| - MAC-hs queue to add or reconfigure list | (one queue)                                                                                              | Rel-5   | RBS7-104 |
| - MAC-hs queue Id                         | 0                                                                                                        | Rel-5   | RBS7-105 |
| - MAC-d Flow Identity                     | 0                                                                                                        | Rel-5   | RBS7-106 |
| - T1                                      | 160                                                                                                      | Rel-5   | RBS7-107 |
| - MAC-hs window size                      | 16                                                                                                       | Rel-5   | RBS7-108 |
| - MAC-d PDU size Info                     |                                                                                                          | Rel-5   | RBS7-109 |
| - MAC-d PDU size                          | Reference to TS34.122 [2] Annex C.4 Fixed Reference Channels                                             | Rel-5   | RBS7-110 |
| - MAC-d PDU size index                    | 0                                                                                                        | Rel-5   | RBS7-111 |
| - MAC-hs queue to delete list             | Not present                                                                                              | Rel-5   | RBS7-112 |
| - DCH quality target                      | Not present                                                                                              |         | RBS7-113 |
| Frequency info                            | Not Present                                                                                              |         | RBS7-114 |
| DTX-DRX timing information                | Not Present                                                                                              | Rel-7   | RBS7-115 |
| DTX-DRX information                       | Not Present                                                                                              | Rel-7   | RBS7-116 |
| HS-SCCH less information                  | Not Present                                                                                              | Rel-7   | RBS7-117 |
| MIMO parameters                           | Not Present                                                                                              | Rel-7   | RBS7-118 |
| Maximum allowed UL TX power               | 30dBm                                                                                                    |         | RBS7-119 |
| CHOICE channel requirement                | Uplink DPCH info                                                                                         |         | RBS7-120 |
| Uplink DPCH info                          |                                                                                                          | Rel-6   | RBS7-121 |
| - Uplink DPCH power control info          |                                                                                                          |         | RBS7-122 |
| - CHOICE mode                             | TDD                                                                                                      |         | RBS7-123 |
| - UL target SIR                           | Not present                                                                                              |         | RBS7-124 |
| - CHOICE UL OL PC info                    | Broadcast UL OL PC info                                                                                  |         | RBS7-125 |
| - CHOICE mode                             | TDD                                                                                                      |         | RBS7-126 |
| - Uplink Timing Advance Control           |                                                                                                          |         | RBS7-127 |
| - CHOICE Timing Advance                   | Enabled                                                                                                  |         | RBS7-128 |
| - CHOICE TDD option                       | 7.68 Mcps TDD                                                                                            | Rel-7   | RBS7-129 |
| - UL Timing Advance                       | Determined by observed timing deviation of the RACH at the node B                                        |         | RBS7-130 |
| - UL CCTrCh List                          | 1 CCTrCh                                                                                                 |         | RBS7-131 |
| - TFCS Id                                 | 1                                                                                                        |         | RBS7-132 |
| - UL target SIR                           | +20dB                                                                                                    |         | RBS7-133 |
| - Activation time                         | Not present                                                                                              |         | RBS7-134 |
| - Duration                                | Not present                                                                                              |         | RBS7-135 |
| - Common timeslot info                    |                                                                                                          |         | RBS7-136 |
| - 2nd interleaving mode                   | Reference to TS 34.122 clause C.2.1 Parameter Set                                                        |         | RBS7-137 |
| - TFCI coding                             | Reference to TS 34.122 clause C.2.1 Parameter Set                                                        |         | RBS7-138 |
| - Puncturing Limit                        | Reference to TS 34.122 clause C.2.1 Parameter Set                                                        |         | RBS7-139 |
| - Repetition Period                       | 1                                                                                                        |         | RBS7-140 |
| - Repetition Length                       | 1                                                                                                        |         | RBS7-141 |
| - CHOICE mode                             | 7.68 Mcps TDD                                                                                            | Rel-7   | RBS7-142 |
| - Uplink DPCH timeslots and codes VHCR    |                                                                                                          | Rel-7   | RBS7-143 |
| - Dynamic SF usage                        | TRUE                                                                                                     |         | RBS7-144 |
| - Timeslot number                         | The number of an uplink timeslot that has unassigned codes.                                              |         | RBS7-145 |
| - TFCI existence                          | TRUE                                                                                                     |         | RBS7-146 |
| - Midamble shift and burst type           |                                                                                                          |         | RBS7-147 |
| - CHOICE TDD option                       | 7.68 Mcps TDD                                                                                            | Rel-7   | RBS7-148 |
| - CHOICE Burst Type                       | Reference to TS 34.122 clause C.2.1 Parameter Set                                                        |         | RBS7-149 |
| - Midamble Allocation Mode                | Default                                                                                                  |         | RBS7-150 |

| Information Element                             | Value/remark                                                                                                                                                             | Version | Index    |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| - Midamble configuration                        | Choose lowest possible Kcell value given burst type                                                                                                                      | Rel-7   | RBS7-151 |
| - CHOICE TDD option                             | 7.68 Mcps TDD                                                                                                                                                            |         | RBS7-152 |
| - First timeslot Code List                      | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS 34.122 clause C.2.1 Parameter Set.                                              |         | RBS7-153 |
| - Channelisation code                           | (i/SF) where i denotes an unassigned code matching the SF specified in TS 34.122 clause C.2.1 Parameter Set.                                                             |         | RBS7-154 |
| - CHOICE more timeslots                         | The presence of this IE depends upon the number of resources specified in TS 34.122 clause C.2.1 Parameter Set and the number of slots in which they are being assigned. |         | RBS7-155 |
| - UL CCTrCH List to Remove                      | Not present                                                                                                                                                              |         | RBS7-156 |
| E-DCH Info                                      | Not present                                                                                                                                                              | Rel-6   | RBS7-157 |
| Downlink HS-PDSCH Information                   |                                                                                                                                                                          | Rel-5   | RBS7-158 |
| - HS-SCCH Info                                  |                                                                                                                                                                          | Rel-5   | RBS7-159 |
| - CHOICE mode                                   | TDD                                                                                                                                                                      | Rel-5   | RBS7-160 |
| - CHOICE TDD option                             | 7.68 Mcps TDD                                                                                                                                                            | Rel-7   | RBS7-161 |
| - Ack-Nack Power Offset                         | 0dB                                                                                                                                                                      | Rel-5   | RBS7-162 |
| - HS-SICH Power Control Info                    |                                                                                                                                                                          | Rel-5   | RBS7-163 |
| - UL SIR target                                 | 0dB                                                                                                                                                                      | Rel-5   | RBS7-164 |
| - HS-SICH Constant Value                        | -10dB                                                                                                                                                                    | Rel-5   | RBS7-165 |
| - D <sub>HS-sync</sub>                          | Not present                                                                                                                                                              | Rel-6   | RBS7-166 |
| - HS-SCCH Set Configuration                     | 4                                                                                                                                                                        | Rel-5   | RBS7-167 |
| - Timeslot number                               | The timeslot in which HS-SCCH is to be configured                                                                                                                        | Rel-5   | RBS7-168 |
| - Channelisation code                           | CC32/x where x is a previously unassigned channelisation code in this TS                                                                                                 | Rel-7   | RBS7-169 |
| - Midamble Allocation mode                      | Default                                                                                                                                                                  | Rel-5   | RBS7-170 |
| - Midamble configuration                        | 8                                                                                                                                                                        | Rel-5   | RBS7-171 |
| - BLER target                                   | -2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$ )                                                                                       | Rel-5   | RBS7-172 |
| - HS-SICH configuration                         |                                                                                                                                                                          |         | RBS7-173 |
| - Timeslot number                               | The timeslot in which HS-SICH has been configured                                                                                                                        | Rel-5   | RBS7-174 |
| - Channelisation code                           | CC32/x where x is a previously unassigned channelisation code in this TS                                                                                                 | Rel-7   | RBS7-175 |
| - Midamble Allocation mode                      | Default                                                                                                                                                                  | Rel-5   | RBS7-176 |
| - Midamble configuration                        | 8                                                                                                                                                                        | Rel-5   | RBS7-177 |
| - Measurement Feedback Info                     |                                                                                                                                                                          | Rel-5   | RBS7-178 |
| - CHOICE mode                                   | TDD                                                                                                                                                                      | Rel-5   | RBS7-179 |
| - CHOICE TDD option                             | 7.68 Mcps TDD                                                                                                                                                            | Rel-7   | RBS7-180 |
| - HS-PDSCH Timeslot Configuration VHCR          |                                                                                                                                                                          | Rel-5   | RBS7-181 |
| - HS-PDSCH Timeslot Configuration List          | Reference to TS 34.122 clause C.4.1 Parameter Set                                                                                                                        | Rel-5   | RBS7-182 |
| - Timeslot Number                               | The timeslot(s) in which HS-HS-DSCH is to be configured                                                                                                                  | Rel-5   | RBS7-183 |
| - CHOICE Burst Type                             | Reference to TS 34.122 clause C.4.1 Parameter Set                                                                                                                        | Rel-5   | RBS7-184 |
| - Midamble Allocation Mode                      | Default                                                                                                                                                                  | Rel-5   | RBS7-185 |
| - Midamble configuration burst type 1 and 3     | 8                                                                                                                                                                        | Rel-5   | RBS7-186 |
| Downlink information common for all radio links | Not Present                                                                                                                                                              |         | RBS7-187 |
| Downlink information for each radio link list   | 1                                                                                                                                                                        |         | RBS7-188 |
| - Downlink information for each radio link      |                                                                                                                                                                          |         | RBS7-189 |
| - Choice mode                                   | 7.68 Mcps TDD                                                                                                                                                            | Rel-7   | RBS7-190 |
| - Primary CCPCH info                            |                                                                                                                                                                          |         | RBS7-191 |
| - Choice mode                                   | TDD                                                                                                                                                                      |         | RBS7-192 |
| - CHOICE TDD option                             | 7.68 Mcps TDD                                                                                                                                                            | Rel-7   | RBS7-193 |
| - CHOICE SyncCase                               | Sync Case 1                                                                                                                                                              |         | RBS7-194 |
| - Timeslot                                      | Set to Timeslot containing PCCPCH                                                                                                                                        |         | RBS7-195 |
| - Cell parameters ID                            | 10                                                                                                                                                                       |         | RBS7-196 |
| - SCTD indicator                                | FALSE                                                                                                                                                                    |         | RBS7-197 |
| - CHOICE DPCH info                              | Downlink DPCH info for each RL                                                                                                                                           |         | RBS7-198 |
| - CHOICE mode                                   | TDD                                                                                                                                                                      |         | RBS7-199 |
| - DL CCTrCH List                                | 1 CCTrCh                                                                                                                                                                 |         | RBS7-200 |
| - TFCS ID                                       | 1                                                                                                                                                                        |         | RBS7-201 |
| - Activation time                               | Not Present                                                                                                                                                              |         | RBS7-202 |

| Information Element                        | Value/remark                                                                                                                                                                   | Version | Index    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| - Duration                                 | Not Present                                                                                                                                                                    |         | RBS7-203 |
| - Common timeslot info                     |                                                                                                                                                                                |         | RBS7-204 |
| - 2 <sup>nd</sup> interleaving mode        | Reference to TS 34.122 clause C.3.1 Parameter Set                                                                                                                              |         | RBS7-205 |
| - TFCI coding                              | Reference to TS 34.122 clause C.3.1 Parameter Set                                                                                                                              |         | RBS7-206 |
| - Puncturing Limit                         | Reference to TS 34.122 clause C.3.1 Parameter Set                                                                                                                              |         | RBS7-207 |
| - Repetition Period                        | Reference to TS 34.122 clause C.3.1 Parameter Set                                                                                                                              |         | RBS7-208 |
| - Repetition Length                        | Reference to TS 34.122 clause C.3.1 Parameter Set                                                                                                                              |         | RBS7-209 |
| - Downlink DPCH timeslots and codes VHCR   |                                                                                                                                                                                | Rel-7   | RBS7-210 |
| - Individual timeslot info                 |                                                                                                                                                                                |         | RBS7-211 |
| - Timeslot number                          | The number of a downlink timeslot that has unassigned codes.                                                                                                                   |         | RBS7-212 |
| - TFCI existence                           | TRUE                                                                                                                                                                           |         | RBS7-213 |
| - Midamble shift and burst type            |                                                                                                                                                                                |         | RBS7-214 |
| - CHOICE TDD option                        | 7.68 Mcps                                                                                                                                                                      |         | RBS7-215 |
| - CHOICE Burst Type                        | Reference to TS 34.122 clause C.3.1 Parameter Set                                                                                                                              |         | RBS7-216 |
| - Midamble Allocation Mode                 | Default                                                                                                                                                                        |         | RBS7-217 |
| - Midamble configuration                   | Set Kcell to lowest possible value given the number of codes defined in TS 34.122 clause C.3.1 Parameter Set                                                                   |         | RBS7-218 |
| - CHOICE TDD option                        | 7.68 Mcps                                                                                                                                                                      | Rel-7   | RBS7-219 |
| - First timeslot channelisation codes VHCR |                                                                                                                                                                                | Rel-7   | RBS7-220 |
| - CHOICE codes representation              | Consecutive codes                                                                                                                                                              |         | RBS7-221 |
| - First channelisation code                | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS 34.122 clause C.3.1 Parameter Set.                                                 |         | RBS7-222 |
| - Last channelisation code                 | (j/SF) where j is the highest numbered code that is being assigned in the slot as specified in TS 34.122 clause C.3.1 Parameter Set.                                           |         | RBS7-223 |
| - CHOICE more timeslots                    | The presence of this IE depends upon whether the requirements of TS 34.122 clause C.3.1 Parameter Set could be met by the codes that have been assigned in the first timeslot. |         | RBS7-224 |
| - UL CCTrCH TPC List                       | No Present                                                                                                                                                                     |         | RBS7-225 |
| - DL CCTrCH List to Remove                 | Not Present                                                                                                                                                                    |         | RBS7-226 |
| - E-AGCH Info                              | Not Present                                                                                                                                                                    | Rel-6   | RBS7-227 |
| - CHOICE E-HICH Information                | Not Present                                                                                                                                                                    | Rel-6   | RBS7-228 |
| - CHOICE E-RGCH Information                | Not Present                                                                                                                                                                    | Rel-6   | RBS7-229 |
| MBMS PL Service Restriction Information    | Not Present                                                                                                                                                                    | Rel-6   | RBS7-230 |

## Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA) (3.84Mcps TDD)

| Information Element            | Value/remark                                                                                                                                                       | Version | Index     |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|
| Message Type                   |                                                                                                                                                                    |         | RBSE3-001 |
| RRC transaction identifier     | Arbitrarily selects an integer between 0 and 3                                                                                                                     |         | RBSE3-002 |
| Integrity check info           |                                                                                                                                                                    |         | RBSE3-003 |
| - message authentication code  | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |         | RBSE3-004 |
| - RRC message sequence number  | SS provides the value of this IE, from its internal counter.                                                                                                       |         | RBSE3-005 |
| Integrity protection mode info | Not Present                                                                                                                                                        |         | RBSE3-006 |
| Ciphering mode info            | Not Present                                                                                                                                                        |         | RBSE3-007 |
| Activation time                | Not Present                                                                                                                                                        |         | RBSE3-008 |
| New U-RNTI                     | Not Present                                                                                                                                                        |         | RBSE3-009 |
| New C-RNTI                     | Not Present                                                                                                                                                        |         | RBSE3-010 |
| New H-RNTI                     | '1010 1010 1010 1010'                                                                                                                                              | Rel-5   | RBSE3-011 |
| New Primary E-RNTI             | '1010 1010 1010 1010'                                                                                                                                              | Rel-6   | RBSE3-012 |
| New Secondary E-RNTI           | Not Present                                                                                                                                                        | Rel-6   | RBSE3-013 |
| RRC State indicator            | CELL_DCH                                                                                                                                                           |         | RBSE3-014 |



| Information Element                                               | Value/remark                                                                                     | Version            | Index     |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------|-----------|
| UTRAN DRX cycle length coefficient                                | Not Present                                                                                      |                    | RBSE3-015 |
| CN information info                                               | Not Present                                                                                      |                    | RBSE3-016 |
| URA identity                                                      | Not Present                                                                                      |                    | RBSE3-017 |
| CHOICE specification mode                                         | Complete specification                                                                           | Rel-6              | RBSE3-018 |
| Signalling RB information to setup                                | Not Present                                                                                      |                    | RBSE3-019 |
| RAB information for setup list                                    |                                                                                                  |                    | RBSE3-020 |
| - RAB information for setup                                       |                                                                                                  |                    | RBSE3-021 |
| - RAB info                                                        | (high-speed UM DTCH for PS domain)                                                               |                    | RBSE3-022 |
| - RAB identity                                                    | 0000 0110B                                                                                       |                    | RBSE3-023 |
|                                                                   | The first/ leftmost bit of the bit string contains the most significant bit of the RAB identity. |                    |           |
| - CN domain identity                                              | PS domain                                                                                        |                    | RBSE3-024 |
| - NAS Synchronization Indicator                                   | Not Present                                                                                      |                    | RBSE3-025 |
| - Re-establishment timer                                          | UseT315                                                                                          |                    | RBSE3-026 |
| - RB information to setup                                         |                                                                                                  |                    | RBSE3-027 |
| - RB identity                                                     | 25                                                                                               |                    | RBSE3-028 |
| - PDCP info                                                       | Not Present                                                                                      |                    | RBSE3-029 |
| - CHOICE RLC info type                                            | RLC info                                                                                         |                    | RBSE3-030 |
| - CHOICE Uplink RLC mode                                          | Not Present                                                                                      |                    | RBSE3-031 |
| - CHOICE Downlink RLC mode                                        | UM RLC                                                                                           |                    | RBSE3-032 |
| - DL UM RLC LI size                                               | 7                                                                                                |                    | RBSE3-033 |
| - One sided RLC re-establishment                                  | FALSE                                                                                            |                    | RBSE3-034 |
| - RB mapping info                                                 |                                                                                                  | Rel-5              | RBSE3-035 |
| - Information for each multiplexing option                        | 1 RBMuxOptions                                                                                   | Rel-5              | RBSE3-036 |
| - RLC logical channel mapping indicator                           | Not Present                                                                                      |                    | RBSE3-037 |
| - Downlink RLC logical channel info                               |                                                                                                  |                    | RBSE3-038 |
| - Number of downlink RLC logical channels                         | 1                                                                                                |                    | RBSE3-039 |
| - Downlink transport channel type                                 | HS-DSCH                                                                                          |                    | RBSE3-040 |
| - DL DCH Transport channel identity                               | Not Present                                                                                      |                    | RBSE3-041 |
| - DL DSCH Transport channel identity                              | Not Present                                                                                      |                    | RBSE3-042 |
| - DL HS-DSCH MAC-d flow identity                                  | 0                                                                                                |                    | RBSE3-043 |
| - Logical channel identity                                        | Not Present                                                                                      |                    | RBSE3-044 |
| RB information to reconfigure list                                | Not Present                                                                                      | Rel-6              | RBSE3-045 |
| RB information to be affected list                                | Not Present                                                                                      |                    | RBSE3-046 |
| Downlink counter synchronization info                             | Not Present                                                                                      |                    | RBSE3-047 |
| PDCP ROHC target mode                                             | Not Present                                                                                      | Rel-5              | RBSE3-048 |
| UL Transport channel information for all transport channels       | Not Present                                                                                      |                    | RBSE3-049 |
| Deleted UL TrCH information list                                  | Not Present                                                                                      |                    | RBSE3-050 |
| Added or Reconfigured TrCH information list                       |                                                                                                  |                    | RBSE3-051 |
| - Uplink transport channel type                                   | E-DCH                                                                                            |                    | RBSE3-052 |
| - CHOICE UL parameters                                            | E-DCH                                                                                            |                    | RBSE3-053 |
| - CHOICE mode                                                     | TDD                                                                                              |                    | RBSE3-054 |
| - HARQ info for E-DCH                                             |                                                                                                  |                    | RBSE3-055 |
| - CHOICE UL parameters                                            | E-DCH                                                                                            |                    | RBSE3-056 |
| - HARQ RV Configuration                                           | rvtable                                                                                          |                    | RBSE3-057 |
| - Added or reconfigured E-DCH MAC-d flow                          |                                                                                                  |                    | RBSE3-058 |
| - E-DCH MAC-d flow identity                                       | 2                                                                                                |                    | RBSE3-059 |
| - E-DCH MAC-d flow power offset                                   | 0                                                                                                |                    | RBSE3-060 |
| - E-DCH MAC-d flow maximum number of retransmissions              | 7                                                                                                |                    | RBSE3-061 |
| - E-DCH MAC-d flow multiplexing list                              | Not Present                                                                                      |                    | RBSE3-062 |
| - CHOICE transmission grant type                                  | Scheduled grant info                                                                             |                    | RBSE3-063 |
| CHOICE mode                                                       | Not Present                                                                                      | R99 and Rel-4 only | RBSE3-064 |
| DL Transport channel information common for all transport channel | Not Present                                                                                      |                    | RBSE3-065 |
| Deleted DL TrCH information                                       | Not Present                                                                                      |                    | RBSE3-066 |
| Added or Reconfigured DL TrCH information list                    | 1 TrCHs added                                                                                    |                    | RBSE3-067 |
| - Added or Reconfigured DL TrCH information                       |                                                                                                  |                    | RBSE3-068 |
| - Downlink transport channel type                                 | HS-DSCH                                                                                          | Rel-5              | RBSE3-069 |
| - DL Transport channel identity                                   | Not Present                                                                                      |                    | RBSE3-070 |
| - CHOICE DL parameters                                            | HS-DSCH                                                                                          | Rel-5              | RBSE3-071 |
| - HARQ Info                                                       |                                                                                                  | Rel-5              | RBSE3-072 |
| - Number of Processes                                             | Reference to TS34.122 Annex C Fixed Reference Channels                                           | Rel-5              | RBSE3-073 |

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Value/remark                                                                                                                                    | Version | Index     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|
| <ul style="list-style-type: none"> <li>- CHOICE <i>Memory Partitioning</i></li> <li>- Memory size</li> <li>- Process Memory Size</li> <li>- Added or reconfigured MAC-d flow</li> <li>- MAC-hs queue to add or reconfigure list</li> <li>- MAC-hs queue Id</li> <li>- MAC-d Flow Identity</li> <li>- T1</li> <li>- MAC-hs window size</li> <li>- MAC-d PDU size Info</li> <li>- MAC-d PDU size</li> <li>- MAC-d PDU size index</li> <li>- MAC-hs queue to delete list</li> <li>- DCH quality target</li> </ul> | Explicit                                                                                                                                        | Rel-5   | RBSE3-074 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Reference to TS34.122 Annex C Fixed Reference Channels                                                                                          | Rel-5   | RBSE3-075 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Reference to TS34.122 Annex C Fixed Reference Channels                                                                                          | Rel-5   | RBSE3-076 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (one queue)                                                                                                                                     | Rel-5   | RBSE3-077 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                                                                                                                                               | Rel-5   | RBSE3-078 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                                                                                                                                               | Rel-5   | RBSE3-079 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50                                                                                                                                              | Rel-5   | RBSE3-080 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16                                                                                                                                              | Rel-5   | RBSE3-081 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Reference to TS34.122 [2] Annex C Fixed Reference Channels                                                                                      | Rel-5   | RBSE3-082 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                                                                                                                                               | Rel-5   | RBSE3-083 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not present                                                                                                                                     | Rel-5   | RBSE3-084 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not present                                                                                                                                     |         | RBSE3-085 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not present                                                                                                                                     |         | RBSE3-086 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not present                                                                                                                                     |         | RBSE3-087 |
| Frequency info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Not Present                                                                                                                                     |         | RBSE3-088 |
| Maximum allowed UL TX power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30dBm                                                                                                                                           |         | RBSE3-089 |
| CHOICE channel requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Uplink DPCH info                                                                                                                                |         | RBSE3-090 |
| Uplink DPCH info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                 | Rel-6   | RBSE3-091 |
| - Uplink DPCH power control info                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                 |         | RBSE3-092 |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TDD                                                                                                                                             |         | RBSE3-093 |
| - UL target SIR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not present                                                                                                                                     |         | RBSE3-094 |
| - CHOICE UL OL PC info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Broadcast UL OL PC info                                                                                                                         |         | RBSE3-095 |
| - CHOICE mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TDD                                                                                                                                             |         | RBSE3-096 |
| - Uplink Timing Advance Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                 |         | RBSE3-097 |
| - CHOICE Timing Advance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Enabled                                                                                                                                         |         | RBSE3-098 |
| - CHOICE TDD option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.84 Mcps TDD                                                                                                                                   |         | RBSE3-099 |
| - UL Timing Advance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Determined by observed timing deviation of the RACH at the node B                                                                               |         | RBSE3-100 |
| - UL CCTrCH List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 CCTrCh                                                                                                                                        |         | RBSE3-101 |
| - TFCS Id                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                                                                                                                               |         | RBSE3-102 |
| - UL target SIR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | +20dB                                                                                                                                           |         | RBSE3-103 |
| - Activation time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not present                                                                                                                                     |         | RBSE3-104 |
| - Duration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Not present                                                                                                                                     |         | RBSE3-105 |
| - Common timeslot info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                 |         | RBSE3-106 |
| - 2 <sup>nd</sup> interleaving mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Reference to TS 34.122 clause C.2.1 Parameter Set                                                                                               |         | RBSE3-107 |
| - TFCI coding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Reference to TS 34.122 clause C.2.1 Parameter Set                                                                                               |         | RBSE3-108 |
| - Puncturing Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Reference to TS 34.122 clause C.2.1 Parameter Set                                                                                               |         | RBSE3-109 |
| - Repetition Period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                                                                                                                                               |         | RBSE3-110 |
| - Repetition Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                                                                                                                                               |         | RBSE3-111 |
| - Uplink DPCH timeslots and codes                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                 |         | RBSE3-112 |
| - Dynamic SF usage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | TRUE                                                                                                                                            |         | RBSE3-113 |
| - Timeslot number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | The number of an uplink timeslot that has unassigned codes.                                                                                     |         | RBSE3-114 |
| - TFCI existence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TRUE                                                                                                                                            |         | RBSE3-115 |
| - Midamble shift and burst type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                 |         | RBSE3-116 |
| - CHOICE TDD option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.84 Mcps                                                                                                                                       |         | RBSE3-117 |
| - CHOICE Burst Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Reference to TS 34.122 clause C.2.1 Parameter Set                                                                                               |         | RBSE3-118 |
| - Midamble Allocation Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Default                                                                                                                                         |         | RBSE3-119 |
| - Midamble configuration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Choose lowest possible Kcell value given burst type                                                                                             |         | RBSE3-120 |
| - CHOICE TDD option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.84 Mcps TDD                                                                                                                                   |         | RBSE3-121 |
| - First timeslot Code List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS 34.122 clause C.2.1 Parameter Set.                     |         | RBSE3-122 |
| - Channelisation code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (i/SF) where i denotes an unassigned code matching the SF specified in TS 34.122 clause C.2.1 Parameter Set.                                    |         | RBSE3-123 |
| - CHOICE more timeslots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | The presence of this IE depends upon the number of resources specified in TS 34.122 clause C.2.1 Parameter Set and the number of slots in which |         | RBSE3-124 |

| Information Element                     | Value/remark                                                                       | Version | Index     |
|-----------------------------------------|------------------------------------------------------------------------------------|---------|-----------|
| - UL CCTrCH List to Remove              | they are being assigned.<br>Not present                                            |         | RBSE3-125 |
| E-DCH Info                              |                                                                                    | Rel-6   | RBSE3-126 |
| - MAC-es/e reset indicator              | TRUE                                                                               |         | RBSE3-127 |
| - CHOICE mode                           | TDD                                                                                |         | RBSE3-128 |
| - CHOICE TDD mode                       | 3.84 TDD                                                                           |         | RBSE3-129 |
| - E-RUCCH info                          |                                                                                    |         | RBSE3-130 |
| - E-RUCCH constant value                | 0dB                                                                                |         | RBSE3-131 |
| - E-RUCCH persistence scaling           | 0.9                                                                                |         | RBSE3-132 |
| - T-RUCCH                               | 100ms                                                                              |         | RBSE3-133 |
| - E-RUCCH timeslot number               | Not Present                                                                        |         | RBSE3-134 |
| - E-RUCCH midamble                      | Not Present                                                                        |         | RBSE3-135 |
| - T-adv                                 | Not Present                                                                        |         | RBSE3-136 |
| - T-SCHED                               | Not Present                                                                        |         | RBSE3-137 |
| - CHOICE TDD option                     | 3.84Mcps TDD                                                                       |         | RBSE3-138 |
| - CHOICE SF                             | Not present                                                                        |         | RBSE3-139 |
| - E-PUCH info                           |                                                                                    |         | RBSE3-140 |
| - E-TFCS information                    |                                                                                    |         | RBSE3-141 |
| - Reference Beta Information QPSK list  | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE3-142 |
| - Reference Code Rate                   | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE3-143 |
| - Reference beta                        | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE3-144 |
| - Reference Beta Information 16QAM list | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE3-145 |
| - Reference Code Rate                   | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE3-146 |
| - Reference beta                        | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE3-147 |
| - CHOICE TDD mode                       | 3.84Mcps TDD                                                                       |         | RBSE3-148 |
| - NE-UCCH                               | Not Present                                                                        |         | RBSE3-149 |
| - E-PUCH constant value                 | 0dB                                                                                |         | RBSE3-150 |
| - E-PUCH TS configuration list          | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE3-151 |
| - TS number                             | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE3-152 |
| - CHOICE <i>Burst Type</i>              | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE3-153 |
| - Midamble configuration                | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE3-154 |
| - E-PUCH code hopping                   | TRUE                                                                               |         | RBSE3-155 |
| - E-PUCH TPC step size                  | 1dB                                                                                |         | RBSE3-156 |
| - Minimum allowed code rate             | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE3-157 |
| - Maximum allowed code rate             | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE3-158 |
| Downlink HS-PDSCH Information           |                                                                                    | Rel-5   | RBSE3-159 |
| - HS-SCCH Info                          |                                                                                    | Rel-5   | RBSE3-160 |
| - CHOICE mode                           | TDD                                                                                | Rel-5   | RBSE3-161 |
| - CHOICE TDD option                     | 3.84 Mcps TDD                                                                      | Rel-5   | RBSE3-162 |
| - Ack-Nack Power Offset                 | 0dB                                                                                | Rel-5   | RBSE3-163 |
| - HS-SICH Power Control Info            |                                                                                    | Rel-5   | RBSE3-164 |
| - UL SIR target                         | 0dB                                                                                | Rel-5   | RBSE3-165 |
| - HS-SICH Constant Value                | -10dB                                                                              | Rel-5   | RBSE3-166 |
| - $D_{hs-sync}$                         | Not present                                                                        | Rel-6   | RBSE3-167 |
| - HS-SCCH Set Configuration             | 4                                                                                  | Rel-5   | RBSE3-168 |
| - Timeslot number                       | The timeslot in which HS-SCCH is to be configured                                  | Rel-5   | RBSE3-169 |
| - Channelisation code                   | CC16/x where x is a previously unassigned channelisation code in this TS           | Rel-5   | RBSE3-170 |
| - Midamble Allocation mode              | Default                                                                            | Rel-5   | RBSE3-171 |
| - Midamble configuration                | 8                                                                                  | Rel-5   | RBSE3-172 |
| - BLER target                           | -2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$ ) | Rel-5   | RBSE3-173 |
| - HS-SICH configuration                 |                                                                                    |         | RBSE3-174 |
| - Timeslot number                       | The timeslot in which HS-SICH has been                                             | Rel-5   | RBSE3-175 |

| Information Element                             | Value/remark                                                                              | Version | Index     |
|-------------------------------------------------|-------------------------------------------------------------------------------------------|---------|-----------|
| - Channelisation code                           | configured<br>CC16/x where x is a previously unassigned<br>channelisation code in this TS | Rel-5   | RBSE3-176 |
| - Midamble Allocation mode                      | Default                                                                                   | Rel-5   | RBSE3-177 |
| - Midamble configuration                        | 8                                                                                         | Rel-5   | RBSE3-178 |
| - Measurement Feedback Info                     |                                                                                           | Rel-5   | RBSE3-179 |
| - CHOICE mode                                   | TDD                                                                                       | Rel-5   | RBSE3-180 |
| - CHOICE TDD option                             | 3.84 Mcps TDD                                                                             | Rel-5   | RBSE3-181 |
| - HS-PDSCH Timeslot Configuration               |                                                                                           | Rel-5   | RBSE3-182 |
| - HS-PDSCH Timeslot Configuration List          | Reference to TS 34.122 clause C.4.1 Parameter<br>Set                                      | Rel-5   | RBSE3-183 |
| - Timeslot Number                               | The timeslot(s) in which HS-HS-DSCH is to<br>configured                                   | Rel-5   | RBSE3-184 |
| - CHOICE Burst Type                             | Reference to TS 34.122 clause C.4.1 Parameter<br>Set                                      | Rel-5   | RBSE3-185 |
| - Midamble Allocation Mode                      | Default                                                                                   | Rel-5   | RBSE3-186 |
| - Midamble configuration burst type 1 and 3     | 8                                                                                         | Rel-5   | RBSE3-187 |
| Downlink information common for all radio links | Not Present                                                                               |         | RBSE3-188 |
| Downlink information per radio link list        | 1                                                                                         |         | RBSE3-189 |
| - Downlink information for each radio link      |                                                                                           |         | RBSE3-190 |
| - Choice mode                                   | TDD                                                                                       |         | RBSE3-191 |
| - Primary CCPCH info                            |                                                                                           |         | RBSE3-192 |
| - Choice mode                                   | TDD                                                                                       |         | RBSE3-193 |
| - CHOICE TDD option                             | 3.84 Mcps TDD                                                                             |         | RBSE3-194 |
| - CHOICE SyncCase                               | Sync Case 1                                                                               |         | RBSE3-195 |
| - Timeslot                                      | Set to Timeslot containing PCCPCH                                                         |         | RBSE3-196 |
| - Cell parameters ID                            | 10                                                                                        |         | RBSE3-197 |
| - SCTD indicator                                | FALSE                                                                                     |         | RBSE3-198 |
| - CHOICE DPCH info                              | Downlink DPCH info for each RL                                                            |         | RBSE3-199 |

## Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA) (7.68Mcps TDD)

| Information Element                | Value/remark                                                                                                                                                             | Version | Index     |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|
| Message Type                       |                                                                                                                                                                          |         | RBSE7-001 |
| RRC transaction identifier         | Arbitrarily selects an integer between 0 and 3                                                                                                                           |         | RBSE7-002 |
| Integrity check info               |                                                                                                                                                                          |         | RBSE7-003 |
| - message authentication code      | SS calculates the value of MAC-I for this message<br>and writes to this IE. The first/ leftmost bit of the bit<br>string contains the most significant bit of the MAC-I. |         | RBSE7-004 |
| - RRC message sequence number      | SS provides the value of this IE, from its internal<br>counter.                                                                                                          |         | RBSE7-005 |
| Integrity protection mode info     | Not Present                                                                                                                                                              |         | RBSE7-006 |
| Ciphering mode info                | Not Present                                                                                                                                                              |         | RBSE7-007 |
| Activation time                    | Not Present                                                                                                                                                              |         | RBSE7-008 |
| New U-RNTI                         | Not Present                                                                                                                                                              |         | RBSE7-009 |
| New C-RNTI                         | Not Present                                                                                                                                                              |         | RBSE7-010 |
| New H-RNTI                         | '1010 1010 1010 1010'                                                                                                                                                    | Rel-5   | RBSE7-011 |
| New Primary E-RNTI                 | '1010 1010 1010 1010'                                                                                                                                                    | Rel-6   | RBSE7-012 |
| New Secondary E-RNTI               | Not Present                                                                                                                                                              | Rel-6   | RBSE7-013 |
| RRC State indicator                | CELL_DCH                                                                                                                                                                 |         | RBSE7-014 |
| UTRAN DRX cycle length coefficient | Not Present                                                                                                                                                              |         | RBSE7-015 |
| CN information info                | Not Present                                                                                                                                                              |         | RBSE7-016 |
| URA identity                       | Not Present                                                                                                                                                              |         | RBSE7-017 |
| CHOICE specification mode          | Complete specification                                                                                                                                                   | Rel-6   | RBSE7-018 |
| Signalling RB information to setup | Not Present                                                                                                                                                              |         | RBSE7-019 |
| RAB information for setup list     |                                                                                                                                                                          |         | RBSE7-020 |
| - RAB information for setup        |                                                                                                                                                                          |         | RBSE7-021 |
| - RAB info                         | (high-speed UM DTCH for PS domain)<br>0000 0110B                                                                                                                         |         | RBSE7-022 |
| - RAB identity                     | The first/ leftmost bit of the bit string contains the<br>most significant bit of the RAB identity.                                                                      |         | RBSE7-023 |
| - CN domain identity               | PS domain                                                                                                                                                                |         | RBSE7-024 |
| - NAS Synchronization Indicator    | Not Present                                                                                                                                                              |         | RBSE7-025 |
| - Re-establishment timer           | UseT315                                                                                                                                                                  |         | RBSE7-026 |
| - RB information to setup          |                                                                                                                                                                          |         | RBSE7-027 |

| Information Element                                               | Value/remark                                           | Version                                                                                                                             | Index     |
|-------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------|
| - RB identity                                                     | 25                                                     | Rel-5<br>Rel-5                                                                                                                      | RBSE7-028 |
| - PDCP info                                                       | Not Present                                            |                                                                                                                                     | RBSE7-029 |
| - CHOICE RLC info type                                            | RLC info                                               |                                                                                                                                     | RBSE7-030 |
| - CHOICE Uplink RLC mode                                          | Not Present                                            |                                                                                                                                     | RBSE7-031 |
| - CHOICE Downlink RLC mode                                        | UM RLC                                                 |                                                                                                                                     | RBSE7-032 |
| - DL UM RLC LI size                                               | 7                                                      |                                                                                                                                     | RBSE7-033 |
| - One sided RLC re-establishment                                  | FALSE                                                  |                                                                                                                                     | RBSE7-034 |
| - RB mapping info                                                 |                                                        |                                                                                                                                     | RBSE7-035 |
| - Information for each multiplexing option                        | 1 RBMuxOptions                                         |                                                                                                                                     | RBSE7-036 |
| - RLC logical channel mapping indicator                           | Not Present                                            |                                                                                                                                     | RBSE7-037 |
| - Downlink RLC logical channel info                               |                                                        |                                                                                                                                     | RBSE7-038 |
| - Number of downlink RLC logical channels                         | 1                                                      |                                                                                                                                     | RBSE7-039 |
| - Downlink transport channel type                                 | HS-DSCH                                                |                                                                                                                                     | RBSE7-040 |
| - DL DCH Transport channel identity                               | Not Present                                            |                                                                                                                                     | RBSE7-041 |
| - DL DSCH Transport channel identity                              | Not Present                                            |                                                                                                                                     | RBSE7-042 |
| - DL HS-DSCH MAC-d flow identity                                  | 0                                                      |                                                                                                                                     | RBSE7-043 |
| - Logical channel identity                                        | Not Present                                            |                                                                                                                                     | RBSE7-044 |
| RB information to reconfigure list                                | Not Present                                            | Rel-6                                                                                                                               | RBSE7-045 |
| RB information to be affected list                                | Not Present                                            |                                                                                                                                     | RBSE7-046 |
| Downlink counter synchronization info                             | Not Present                                            |                                                                                                                                     | RBSE7-047 |
| PDCP ROHC target mode                                             | Not Present                                            | Rel-5                                                                                                                               | RBSE7-048 |
| UL Transport channel information for all transport channels       | Not Present                                            |                                                                                                                                     | RBSE7-049 |
| Deleted UL TrCH information list                                  | Not Present                                            |                                                                                                                                     | RBSE7-050 |
| Added or Reconfigured TrCH information list                       |                                                        |                                                                                                                                     | RBSE7-051 |
| - Uplink transport channel type                                   | E-DCH                                                  |                                                                                                                                     | RBSE7-052 |
| - CHOICE UL parameters                                            | E-DCH                                                  |                                                                                                                                     | RBSE7-053 |
| - CHOICE mode                                                     | TDD                                                    |                                                                                                                                     | RBSE7-054 |
| - HARQ info for E-DCH                                             |                                                        |                                                                                                                                     | RBSE7-055 |
| - CHOICE UL parameters                                            | E-DCH                                                  |                                                                                                                                     | RBSE7-056 |
| - HARQ RV Configuration                                           | rvtable                                                |                                                                                                                                     | RBSE7-057 |
| - Added or reconfigured E-DCH MAC-d flow                          |                                                        |                                                                                                                                     | RBSE7-058 |
| - E-DCH MAC-d flow identity                                       | 2                                                      |                                                                                                                                     | RBSE7-059 |
| - E-DCH MAC-d flow power offset                                   | 0                                                      |                                                                                                                                     | RBSE7-060 |
| - E-DCH MAC-d flow maximum number of retransmissions              | 7                                                      |                                                                                                                                     | RBSE7-061 |
| - E-DCH MAC-d flow multiplexing list                              | Not Present                                            |                                                                                                                                     | RBSE7-062 |
| - CHOICE transmission grant type                                  | Scheduled grant info                                   |                                                                                                                                     | RBSE7-063 |
| CHOICE mode                                                       | Not Present                                            | R99 and Rel-4 only                                                                                                                  | RBSE7-064 |
| DL Transport channel information common for all transport channel | Not Present                                            |                                                                                                                                     | RBSE7-065 |
| Deleted DL TrCH information                                       | Not Present                                            |                                                                                                                                     | RBSE7-066 |
| Added or Reconfigured DL TrCH information list                    | 1 TrCHs added                                          | Rel-5<br>Rel-5<br>Rel-5<br>Rel-5<br>Rel-5<br>Rel-5<br>Rel-5<br>Rel-5<br>Rel-5<br>Rel-5<br>Rel-5<br>Rel-5<br>Rel-5<br>Rel-5<br>Rel-5 | RBSE7-067 |
| - Added or Reconfigured DL TrCH information                       |                                                        |                                                                                                                                     | RBSE7-068 |
| - Downlink transport channel type                                 | HS-DSCH                                                |                                                                                                                                     | RBSE7-069 |
| - DL Transport channel identity                                   | Not Present                                            |                                                                                                                                     | RBSE7-070 |
| - CHOICE DL parameters                                            | HS-DSCH                                                |                                                                                                                                     | RBSE7-071 |
| - HARQ Info                                                       |                                                        |                                                                                                                                     | RBSE7-072 |
| - Number of Processes                                             | Reference to TS34.122 Annex C Fixed Reference Channels |                                                                                                                                     | RBSE7-073 |
| - CHOICE <i>Memory Partitioning</i>                               | Explicit                                               |                                                                                                                                     | RBSE7-074 |
| - Memory size                                                     | Reference to TS34.122 Annex C Fixed Reference Channels |                                                                                                                                     | RBSE7-075 |
| - Process Memory Size                                             | Reference to TS34.122 Annex C Fixed Reference Channels |                                                                                                                                     | RBSE7-076 |
| - Added or reconfigured MAC-d flow                                |                                                        |                                                                                                                                     | RBSE7-077 |
| - MAC-hs queue to add or reconfigure list                         | (one queue)                                            |                                                                                                                                     | RBSE7-078 |
| - MAC-hs queue Id                                                 | 0                                                      |                                                                                                                                     | RBSE7-079 |
| - MAC-d Flow Identity                                             | 0                                                      |                                                                                                                                     | RBSE7-080 |
| - T1                                                              | 50                                                     |                                                                                                                                     | RBSE7-081 |
| - MAC-hs window size                                              | 16                                                     |                                                                                                                                     | RBSE7-082 |
| - MAC-d PDU size Info                                             |                                                        |                                                                                                                                     | RBSE7-083 |
| - MAC-d PDU size                                                  | Reference to TS34.122 Annex C Fixed Reference Channels |                                                                                                                                     | RBSE7-084 |
| - MAC-d PDU size index                                            | 0                                                      |                                                                                                                                     | RBSE7-085 |

| Information Element                 | Value/remark                                                                                                                                                         | Version | Index     |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|
| - MAC-hs queue to delete list       | Not present                                                                                                                                                          | Rel-5   | RBSE7-086 |
| - DCH quality target                | Not present                                                                                                                                                          |         | RBSE7-087 |
| Frequency info                      | Not Present                                                                                                                                                          |         | RBSE7-088 |
| Maximum allowed UL TX power         | 30dBm                                                                                                                                                                |         | RBSE7-089 |
| CHOICE channel requirement          | Uplink DPCH info                                                                                                                                                     |         | RBSE7-090 |
| Uplink DPCH info                    |                                                                                                                                                                      | Rel-6   | RBSE7-091 |
| - Uplink DPCH power control info    |                                                                                                                                                                      |         | RBSE7-092 |
| - CHOICE mode                       | TDD                                                                                                                                                                  |         | RBSE7-093 |
| - UL target SIR                     | Not present                                                                                                                                                          |         | RBSE7-094 |
| - CHOICE UL OL PC info              | Broadcast UL OL PC info                                                                                                                                              |         | RBSE7-095 |
| - CHOICE mode                       | TDD                                                                                                                                                                  |         | RBSE7-096 |
| - Uplink Timing Advance Control     |                                                                                                                                                                      |         | RBSE7-097 |
| - CHOICE Timing Advance             | Enabled                                                                                                                                                              |         | RBSE7-098 |
| - CHOICE TDD option                 | 7.68 Mcps TDD                                                                                                                                                        |         | RBSE7-099 |
| - UL Timing Advance                 | Determined by observed timing deviation of the RACH at the node B                                                                                                    |         | RBSE7-100 |
| - UL CCTrCH List                    | 1 CCTrCh                                                                                                                                                             |         | RBSE7-101 |
| - TFCS Id                           | 1                                                                                                                                                                    |         | RBSE7-102 |
| - UL target SIR                     | +20dB                                                                                                                                                                |         | RBSE7-103 |
| - Activation time                   | Not present                                                                                                                                                          |         | RBSE7-104 |
| - Duration                          | Not present                                                                                                                                                          |         | RBSE7-105 |
| - Common timeslot info              |                                                                                                                                                                      |         | RBSE7-106 |
| - 2 <sup>nd</sup> interleaving mode | Reference to TS34.122 Annex C Fixed Reference Channels                                                                                                               |         | RBSE7-107 |
| - TFCI coding                       | Reference to TS34.122 Annex C Fixed Reference Channels                                                                                                               |         | RBSE7-108 |
| - Puncturing Limit                  | Reference to TS34.122 Annex C Fixed Reference Channels                                                                                                               |         | RBSE7-109 |
| - Repetition Period                 | 1                                                                                                                                                                    |         | RBSE7-110 |
| - Repetition Length                 | 1                                                                                                                                                                    |         | RBSE7-111 |
| - Uplink DPCH timeslots and codes   |                                                                                                                                                                      |         | RBSE7-112 |
| - Dynamic SF usage                  | TRUE                                                                                                                                                                 |         | RBSE7-113 |
| - Timeslot number                   | The number of an uplink timeslot that has unassigned codes.                                                                                                          |         | RBSE7-114 |
| - TFCI existence                    | TRUE                                                                                                                                                                 |         | RBSE7-115 |
| - Midamble shift and burst type     |                                                                                                                                                                      |         | RBSE7-116 |
| - CHOICE TDD option                 | 7.68 Mcps                                                                                                                                                            |         | RBSE7-117 |
| - CHOICE Burst Type                 | Reference to TS34.122 Annex C Fixed Reference Channels                                                                                                               |         | RBSE7-118 |
| - Midamble Allocation Mode          | Default                                                                                                                                                              |         | RBSE7-119 |
| - Midamble configuration            | Choose lowest possible Kcell value given burst type                                                                                                                  |         | RBSE7-120 |
| - CHOICE TDD option                 | 7.68 Mcps TDD                                                                                                                                                        |         | RBSE7-121 |
| - First timeslot Code List          | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS 34.122 clause C Parameter Set.                                              |         | RBSE7-122 |
| - Channelisation code               | (i/SF) where i denotes an unassigned code matching the SF specified in TS 34.122 clause C Parameter Set.                                                             |         | RBSE7-123 |
| - CHOICE more timeslots             | The presence of this IE depends upon the number of resources specified in TS 34.122 clause C Parameter Set and the number of slots in which they are being assigned. |         | RBSE7-124 |
| - UL CCTrCH List to Remove          | Not present                                                                                                                                                          |         | RBSE7-125 |
| E-DCH Info                          |                                                                                                                                                                      | Rel-6   | RBSE7-126 |
| - MAC-es/e reset indicator          | TRUE                                                                                                                                                                 |         | RBSE7-127 |
| - CHOICE mode                       | TDD                                                                                                                                                                  |         | RBSE7-128 |
| - CHOICE TDD mode                   | 7.68 TDD                                                                                                                                                             |         | RBSE7-129 |
| - E-RUCCH info                      |                                                                                                                                                                      |         | RBSE7-130 |
| - E-RUCCH constant value            | 0dB                                                                                                                                                                  |         | RBSE7-131 |
| - E-RUCCH persistence scaling       | 0.9                                                                                                                                                                  |         | RBSE7-132 |
| - T-RUCCH                           | 100ms                                                                                                                                                                |         | RBSE7-133 |
| - E-RUCCH timeslot number           | Not Present                                                                                                                                                          |         | RBSE7-134 |
| - E-RUCCH midamble                  | Not Present                                                                                                                                                          |         | RBSE7-135 |
| - T-adv                             | Not Present                                                                                                                                                          |         | RBSE7-136 |
| - T-SCHED                           | Not Present                                                                                                                                                          |         | RBSE7-137 |
| - CHOICE TDD option                 | 7.68Mcps TDD                                                                                                                                                         |         | RBSE7-138 |

| Information Element                     | Value/remark                                                                       | Version | Index     |
|-----------------------------------------|------------------------------------------------------------------------------------|---------|-----------|
| - CHOICE SF                             | Not present                                                                        |         | RBSE7-139 |
| - E-PUCH info                           |                                                                                    |         | RBSE7-140 |
| - E-TFCS information                    |                                                                                    |         | RBSE7-141 |
| - Reference Beta Information QPSK list  | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE7-142 |
| - Reference Code Rate                   | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE7-143 |
| - Reference beta                        | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE7-144 |
| - Reference Beta Information 16QAM list | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE7-145 |
| - Reference Code Rate                   | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE7-146 |
| - Reference beta                        | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE7-147 |
| - CHOICE TDD mode                       | 7.68Mcps TDD                                                                       |         | RBSE7-148 |
| - $N_{E-UCCH}$                          | Not Present                                                                        |         | RBSE7-149 |
| - E-PUCH constant value                 | 0dB                                                                                |         | RBSE7-150 |
| - E-PUCH TS configuration list          | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE7-151 |
| - TS number                             | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE7-152 |
| - CHOICE <i>Burst Type</i>              | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE7-153 |
| - Midamble configuration                | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE7-154 |
| - E-PUCH code hopping                   | TRUE                                                                               |         | RBSE7-155 |
| - E-PUCH TPC step size                  | 1dB                                                                                |         | RBSE7-156 |
| - Minimum allowed code rate             | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE7-157 |
| - Maximum allowed code rate             | Reference to TS34.122 Annex C Fixed Reference Channels                             |         | RBSE7-158 |
| Downlink HS-PDSCH Information           |                                                                                    | Rel-5   | RBSE7-159 |
| - HS-SCCH Info                          |                                                                                    | Rel-5   | RBSE7-160 |
| - CHOICE mode                           | TDD                                                                                | Rel-5   | RBSE7-161 |
| - CHOICE TDD option                     | 7.68 Mcps TDD                                                                      | Rel-5   | RBSE7-162 |
| - Ack-Nack Power Offset                 | 0dB                                                                                | Rel-5   | RBSE7-163 |
| - HS-SICH Power Control Info            |                                                                                    | Rel-5   | RBSE7-164 |
| - UL SIR target                         | 0dB                                                                                | Rel-5   | RBSE7-165 |
| - HS-SICH Constant Value                | -10dB                                                                              | Rel-5   | RBSE7-166 |
| - $D_{hs-sync}$                         | Not present                                                                        | Rel-6   | RBSE7-167 |
| - HS-SCCH Set Configuration             | 4                                                                                  | Rel-5   | RBSE7-168 |
| - Timeslot number                       | The timeslot in which HS-SCCH is to be configured                                  | Rel-5   | RBSE7-169 |
| - Channelisation code                   | CC32/x where x is a previously unassigned channelisation code in this TS           | Rel-5   | RBSE7-170 |
| - Midamble Allocation mode              | Default                                                                            | Rel-5   | RBSE7-171 |
| - Midamble configuration                | 8                                                                                  | Rel-5   | RBSE7-172 |
| - BLER target                           | -2.4 (note that this equates to a BLER target of 0.4%, $\log_{10}(0.004) = -2.4$ ) | Rel-5   | RBSE7-173 |
| - HS-SICH configuration                 |                                                                                    |         | RBSE7-174 |
| - Timeslot number                       | The timeslot in which HS-SICH has been configured                                  | Rel-5   | RBSE7-175 |
| - Channelisation code                   | CC32/x where x is a previously unassigned channelisation code in this TS           | Rel-5   | RBSE7-176 |
| - Midamble Allocation mode              | Default                                                                            | Rel-5   | RBSE7-177 |
| - Midamble configuration                | 8                                                                                  | Rel-5   | RBSE7-178 |
| - Measurement Feedback Info             |                                                                                    | Rel-5   | RBSE7-179 |
| - CHOICE mode                           | TDD                                                                                | Rel-5   | RBSE7-180 |
| - CHOICE TDD option                     | 7.68 Mcps TDD                                                                      | Rel-5   | RBSE7-181 |
| - HS-PDSCH Timeslot Configuration       |                                                                                    | Rel-5   | RBSE7-182 |
| - HS-PDSCH Timeslot Configuration List  | Reference to TS 34.122 clause C.4.1 Parameter Set                                  | Rel-5   | RBSE7-183 |
| - Timeslot Number                       | The timeslot(s) in which HS-HS-DSCH is to be configured                            | Rel-5   | RBSE7-184 |
| - CHOICE Burst Type                     | Reference to TS 34.122 clause C.4.1 Parameter Set                                  | Rel-5   | RBSE7-185 |

| Information Element                             | Value/remark                      | Version | Index     |
|-------------------------------------------------|-----------------------------------|---------|-----------|
| - Midamble Allocation Mode                      | Default                           | Rel-5   | RBSE7-186 |
| - Midamble configuration burst type 1 and 3     | 8                                 | Rel-5   | RBSE7-187 |
| Downlink information common for all radio links | Not Present                       |         | RBSE7-188 |
| Downlink information per radio link list        | 1                                 |         | RBSE7-189 |
| - Downlink information for each radio link      |                                   |         | RBSE7-190 |
| - Choice mode                                   | TDD                               |         | RBSE7-191 |
| - Primary CCPCH info                            |                                   |         | RBSE7-192 |
| - Choice mode                                   | TDD                               |         | RBSE7-193 |
| - CHOICE TDD option                             | 7.68 Mcps TDD                     |         | RBSE7-194 |
| - CHOICE SyncCase                               | Sync Case 1                       |         | RBSE7-195 |
| - Timeslot                                      | Set to Timeslot containing PCCPCH |         | RBSE7-196 |
| - Cell parameters ID                            | 10                                |         | RBSE7-197 |
| - SCTD indicator                                | FALSE                             |         | RBSE7-198 |
| - CHOICE DPCH info                              | Downlink DPCH info for each RL    |         | RBSE7-199 |

## Contents of RRC CONNECTION RELEASE message: UM

| Information Element           | Value/remark                                                                                                                                                       | Version    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Message Type                  |                                                                                                                                                                    |            |
| U-RNTI                        | This IE is set to the following value when the message is transmitted on the DCCCH. When transmitted on CDCCH, this is absent.                                     | R99, Rel-4 |
| - SRNC identity               | 0000 0000 0001B                                                                                                                                                    |            |
| - S-RNTI                      | 0000 0000 0000 0000 0001B                                                                                                                                          |            |
| CHOICE identity type          | This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent.                                       | Rel-5      |
| - U-RNTI                      |                                                                                                                                                                    |            |
| - SRNC identity               | 0000 0000 0001B                                                                                                                                                    |            |
| - S-RNTI                      | 0000 0000 0000 0000 0001B                                                                                                                                          |            |
| - Group identity              | [FFS]                                                                                                                                                              |            |
| - Group release information   | [FFS]                                                                                                                                                              |            |
| RRC transaction identifier    | Arbitrarily selects an integer between 0 and 3                                                                                                                     |            |
| Integrity check info          | This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted.                                                   |            |
| - Message authentication code | SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. |            |
| - RRC Message sequence number | SS provides the value of this IE, from its internal counter.                                                                                                       |            |
| N308                          | 2 (for CELL_DCH state). Not Present (for UE in other connected mode states).                                                                                       |            |
| Release cause                 | Normal event                                                                                                                                                       |            |
| Rplmn information             | Not Present                                                                                                                                                        |            |

## Contents of RRC CONNECTION SETUP message: UM (3.84 Mcps TDD)

| Information Element                     | Value/remark                                                                                            | Version | Index    |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                            |                                                                                                         |         | RCS3-001 |
| Initial UE identity                     | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message |         | RCS3-002 |
| RRC transaction identifier              | Arbitrarily selects an integer between 0 and 3                                                          |         | RCS3-003 |
| Activation time                         | Not Present(Now)                                                                                        |         | RCS3-004 |
| New U-RNTI                              |                                                                                                         |         | RCS3-005 |
| - SRNC identity                         | 0000 0000 0001B                                                                                         |         | RCS3-006 |
| - S-RNTI                                | 0000 0000 0000 0000 0001B                                                                               |         | RCS3-007 |
| New C-RNTI                              | Not Present                                                                                             |         | RCS3-008 |
| RRC State Indicator                     | CELL_DCH                                                                                                |         | RCS3-009 |
| UTRAN DRX cycle length coefficient      | 9                                                                                                       |         | RCS3-010 |
| Capability update requirement           |                                                                                                         |         | RCS3-011 |
| - UE radio access FDD capability update | FALSE                                                                                                   |         | RCS3-012 |
| - UE radio access TDD capability update | TRUE                                                                                                    |         | RCS3-013 |



| Information Element                             | Value/remark                        | Version | Index    |
|-------------------------------------------------|-------------------------------------|---------|----------|
| requirement                                     |                                     |         |          |
| - System specific capability update requirement | GSM                                 |         | RCS3-014 |
| list                                            |                                     |         |          |
| CHOICE <i>specification mode</i>                | Complete specification              | Rel-5   | RCS3-015 |
| - Complete specification                        |                                     | Rel-5   | RCS3-016 |
| - Signalling RB information to setup list       | 4 SRBs                              |         | RCS3-017 |
| - Signalling RB information to setup            | (UM DCCH for RRC)                   |         | RCS3-018 |
| - RB identity                                   | Not Present                         |         | RCS3-019 |
| - CHOICE RLC info type                          | RLC info                            |         | RCS3-020 |
| - CHOICE Uplink RLC mode                        | UM RLC                              |         | RCS3-021 |
| - Transmission RLC discard                      | Not Present                         |         | RCS3-022 |
| - CHOICE Downlink RLC mode                      | UM RLC                              |         | RCS3-023 |
| - RB mapping info                               |                                     |         | RCS3-024 |
| - Information for each multiplexing option      | 2 RBMuxOptions                      |         | RCS3-025 |
| - RLC logical channel mapping indicator         | Not Present                         |         | RCS3-026 |
| - Number of RLC logical channels                | 1                                   |         | RCS3-027 |
| - Uplink transport channel type                 | DCH                                 |         | RCS3-028 |
| - UL Transport channel identity                 | 5                                   |         | RCS3-029 |
| - Logical channel identity                      | 1                                   |         | RCS3-030 |
| - CHOICE RLC size list                          | Configured                          |         | RCS3-031 |
| - MAC logical channel priority                  | 1                                   |         | RCS3-032 |
| - Downlink RLC logical channel info             |                                     |         | RCS3-033 |
| - Number of RLC logical channels                | 1                                   |         | RCS3-034 |
| - Downlink transport channel type               | DCH                                 |         | RCS3-035 |
| - DL DCH Transport channel identity             | 10                                  |         | RCS3-036 |
| - DL DSCH Transport channel identity            | Not Present                         |         | RCS3-037 |
| - Logical channel identity                      | 1                                   |         | RCS3-038 |
| - RLC logical channel mapping indicator         | Not Present                         |         | RCS3-039 |
| - Number of RLC logical channels                | 1                                   |         | RCS3-040 |
| - Uplink transport channel type                 | RACH                                |         | RCS3-041 |
| - UL Transport channel identity                 | Not Present                         |         | RCS3-042 |
| - Logical channel identity                      | 1                                   |         | RCS3-043 |
| - CHOICE RLC size list                          | Configured                          |         | RCS3-044 |
| - RLC size index                                | Reference to clause 6 Parameter Set |         | RCS3-045 |
| - MAC logical channel priority                  | 1                                   |         | RCS3-046 |
| - Downlink RLC logical channel info             |                                     |         | RCS3-047 |
| - Number of RLC logical channels                | 1                                   |         | RCS3-048 |
| - Downlink transport channel type               | FACH                                |         | RCS3-049 |
| - DL DCH Transport channel identity             | Not Present                         |         | RCS3-050 |
| - DL DSCH Transport channel identity            | Not Present                         |         | RCS3-051 |
| - Logical channel identity                      | 1                                   |         | RCS3-052 |
| - Signalling RB information to setup            | (AM DCCH for RRC)                   |         | RCS3-053 |
| - RB identity                                   | Not Present                         |         | RCS3-054 |
| - CHOICE RLC info type                          |                                     |         | RCS3-055 |
| - RLC info                                      |                                     |         | RCS3-056 |
| - CHOICE Uplink RLC mode                        | AM RLC                              |         | RCS3-057 |
| - Transmission RLC discard                      |                                     |         | RCS3-058 |
| - SDU discard mode                              | No Discard                          |         | RCS3-059 |
| - MAX_DAT                                       | 415                                 |         | RCS3-060 |
| - Transmission window size                      | 128                                 |         | RCS3-061 |
| - Timer_RST                                     | 500                                 |         | RCS3-062 |
| - Max_RST                                       | 4                                   |         | RCS3-063 |
| - Polling info                                  |                                     |         | RCS3-064 |
| - Timer_poll_prohibit                           | 200                                 |         | RCS3-065 |
| - Timer_poll                                    | 200                                 |         | RCS3-066 |
| - Poll_PDU                                      | Not Present                         |         | RCS3-067 |
| - Poll_SDU                                      | 1                                   |         | RCS3-068 |
| - Last transmission PDU poll                    | TRUE                                |         | RCS3-069 |
| - Last retransmission PDU poll                  | TRUE                                |         | RCS3-070 |
| - Poll_Windows                                  | 99                                  |         | RCS3-071 |
| - Timer_poll_periodic                           | Not Present                         |         | RCS3-072 |
| - CHOICE Downlink RLC mode                      | AM RLC                              |         | RCS3-073 |
| - In-sequence delivery                          | TRUE                                |         | RCS3-074 |
| - Receiving window size                         | 128                                 |         | RCS3-075 |
| - Downlink RLC status info                      |                                     |         | RCS3-076 |
| - Timer_status_prohibit                         | 200                                 |         | RCS3-077 |
| - Timer_EPC                                     | Not Present                         |         | RCS3-078 |

| Information Element                        | Value/remark                        | Version | Index    |
|--------------------------------------------|-------------------------------------|---------|----------|
| - Missing PDU indicator                    | TRUE                                |         | RCS3-079 |
| - Timer_STATUS_periodic                    | Not Present                         |         | RCS3-080 |
| - RB mapping info                          |                                     |         | RCS3-081 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RCS3-082 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS3-083 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-084 |
| - Uplink transport channel type            | DCH                                 |         | RCS3-085 |
| - UL Transport channel identity            | 5                                   |         | RCS3-086 |
| - Logical channel identity                 | 2                                   |         | RCS3-087 |
| - CHOICE RLC size list                     | Configured                          |         | RCS3-088 |
| - MAC logical channel priority             | 2                                   |         | RCS3-089 |
| - Downlink RLC logical channel info        |                                     |         | RCS3-090 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-091 |
| - Downlink transport channel type          | DCH                                 |         | RCS3-092 |
| - DL DCH Transport channel identity        | 10                                  |         | RCS3-093 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS3-094 |
| - Logical channel identity                 | 2                                   |         | RCS3-095 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS3-096 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-097 |
| - Uplink transport channel type            | RACH                                |         | RCS3-098 |
| - UL Transport channel identity            | Not Present                         |         | RCS3-099 |
| - Logical channel identity                 | 2                                   |         | RCS3-100 |
| - CHOICE RLC size list                     | Explicit List                       |         | RCS3-101 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS3-102 |
| - MAC logical channel priority             | 2                                   |         | RCS3-103 |
| - Downlink RLC logical channel info        |                                     |         | RCS3-104 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-105 |
| - Downlink transport channel type          | FACH                                |         | RCS3-106 |
| - DL DCH Transport channel identity        | Not Present                         |         | RCS3-107 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS3-108 |
| - Logical channel identity                 | 2                                   |         | RCS3-109 |
| - Signalling RB information to setup       | (AM DCCH for NAS_DT High priority)  |         | RCS3-110 |
| - RB identity                              | Not Present                         |         | RCS3-111 |
| - CHOICE RLC info type                     |                                     |         | RCS3-112 |
| - RLC info                                 |                                     |         | RCS3-113 |
| - CHOICE Uplink RLC mode                   | AM RLC                              |         | RCS3-114 |
| - Transmission RLC discard                 |                                     |         | RCS3-115 |
| - SDU discard mode                         | No Discard                          |         | RCS3-116 |
| - MAX_DAT                                  | 415                                 |         | RCS3-117 |
| - Transmission window size                 | 128                                 |         | RCS3-118 |
| - Timer_RST                                | 500                                 |         | RCS3-119 |
| - Max_RST                                  | 4                                   |         | RCS3-120 |
| - Polling info                             |                                     |         | RCS3-121 |
| - Timer_poll_prohibit                      | 200                                 |         | RCS3-122 |
| - Timer_poll                               | 200                                 |         | RCS3-123 |
| - Poll_PDU                                 | Not Present                         |         | RCS3-124 |
| - Poll_SDU                                 | 1                                   |         | RCS3-125 |
| - Last transmission PDU poll               | TRUE                                |         | RCS3-126 |
| - Last retransmission PDU poll             | TRUE                                |         | RCS3-127 |
| - Poll_Windows                             | 99                                  |         | RCS3-128 |
| - Timer_poll_periodic                      | Not Present                         |         | RCS3-129 |
| - CHOICE Downlink RLC mode                 | AM RLC                              |         | RCS3-130 |
| - In-sequence delivery                     | TRUE                                |         | RCS3-131 |
| - Receiving window size                    | 128                                 |         | RCS3-132 |
| - Downlink RLC status info                 |                                     |         | RCS3-133 |
| - Timer_status_prohibit                    | 200                                 |         | RCS3-134 |
| - Timer_EPC                                | Not Present                         |         | RCS3-135 |
| - Missing PDU indicator                    | TRUE                                |         | RCS3-136 |
| - Timer_STATUS_periodic                    | Not Present                         |         | RCS3-137 |
| - RB mapping info                          |                                     |         | RCS3-138 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RCS3-139 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS3-140 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-141 |
| - Uplink transport channel type            | DCH                                 |         | RCS3-142 |
| - UL Transport channel identity            | 5                                   |         | RCS3-143 |
| - Logical channel identity                 | 3                                   |         | RCS3-144 |
| - CHOICE RLC size list                     | Configured                          |         | RCS3-145 |

| Information Element                        | Value/remark                        | Version | Index    |
|--------------------------------------------|-------------------------------------|---------|----------|
| - MAC logical channel priority             | 3                                   |         | RCS3-146 |
| - Downlink RLC logical channel info        |                                     |         | RCS3-147 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-148 |
| - Downlink transport channel type          | DCH                                 |         | RCS3-149 |
| - DL DCH Transport channel identity        | 10                                  |         | RCS3-150 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS3-151 |
| - Logical channel identity                 | 3                                   |         | RCS3-152 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS3-153 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-154 |
| - Uplink transport channel type            | RACH                                |         | RCS3-155 |
| - UL Transport channel identity            | Not Present                         |         | RCS3-156 |
| - Logical channel identity                 | 3                                   |         | RCS3-157 |
| - CHOICE RLC size list                     | Explicit List                       |         | RCS3-158 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS3-159 |
| - MAC logical channel priority             | 3                                   |         | RCS3-160 |
| - Downlink RLC logical channel info        |                                     |         | RCS3-161 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-162 |
| - Downlink transport channel type          | FACH                                |         | RCS3-163 |
| - DL DCH Transport channel identity        | Not Present                         |         | RCS3-164 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS3-165 |
| - Logical channel identity                 | 3                                   |         | RCS3-166 |
| - Signalling RB information to setup       | (AM DCCH for NAS_DT Low priority)   |         | RCS3-167 |
| - RB identity                              | Not Present                         |         | RCS3-168 |
| - CHOICE RLC info type                     |                                     |         | RCS3-169 |
| - RLC info                                 |                                     |         | RCS3-170 |
| - CHOICE Uplink RLC mode                   | AM RLC                              |         | RCS3-171 |
| - Transmission RLC discard                 |                                     |         | RCS3-172 |
| - SDU discard mode                         | No Discard                          |         | RCS3-173 |
| - MAX_DAT                                  | 15                                  |         | RCS3-174 |
| - Transmission window size                 | 128                                 |         | RCS3-175 |
| - Timer_RST                                | 500                                 |         | RCS3-176 |
| - Max_RST                                  | 4                                   |         | RCS3-177 |
| - Polling info                             |                                     |         | RCS3-178 |
| - Timer_poll_prohibit                      | 200                                 |         | RCS3-179 |
| - Timer_poll                               | 200                                 |         | RCS3-180 |
| - Poll_PDU                                 | Not Present                         |         | RCS3-181 |
| - Poll_SDU                                 | 1                                   |         | RCS3-182 |
| - Last transmission PDU poll               | TRUE                                |         | RCS3-183 |
| - Last retransmission PDU poll             | TRUE                                |         | RCS3-184 |
| - Poll_Windows                             | 99                                  |         | RCS3-185 |
| - Timer_poll_periodic                      | Not Present                         |         | RCS3-186 |
| - CHOICE Downlink RLC mode                 | AM RLC                              |         | RCS3-187 |
| - In-sequence delivery                     | TRUE                                |         | RCS3-188 |
| - Receiving window size                    | 128                                 |         | RCS3-189 |
| - Downlink RLC status info                 |                                     |         | RCS3-190 |
| - Timer_status_prohibit                    | 200                                 |         | RCS3-191 |
| - Timer_EPC                                | Not Present                         |         | RCS3-192 |
| - Missing PDU indicator                    | TRUE                                |         | RCS3-193 |
| - Timer_STATUS_periodic                    | Not Present                         |         | RCS3-194 |
| - RB mapping info                          |                                     |         | RCS3-195 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RCS3-196 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS3-197 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-198 |
| - Uplink transport channel type            | DCH                                 |         | RCS3-199 |
| - UL Transport channel identity            | 5                                   |         | RCS3-200 |
| - Logical channel identity                 | 4                                   |         | RCS3-201 |
| - CHOICE RLC size list                     | Configured                          |         | RCS3-202 |
| - MAC logical channel priority             | 4                                   |         | RCS3-203 |
| - Downlink RLC logical channel info        |                                     |         | RCS3-204 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-205 |
| - Downlink transport channel type          | DCH                                 |         | RCS3-206 |
| - DL DCH Transport channel identity        | 10                                  |         | RCS3-207 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS3-208 |
| - Logical channel identity                 | 4                                   |         | RCS3-209 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS3-210 |
| - Number of RLC logical channels           | 1                                   |         | RCS3-211 |
| - Uplink transport channel type            | RACH                                |         | RCS3-212 |

| Information Element                                               | Value/remark                                                                         | Version | Index    |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------|----------|
| - UL Transport channel identity                                   | Not Present                                                                          |         | RCS3-213 |
| - Logical channel identity                                        | 4                                                                                    |         | RCS3-214 |
| - CHOICE RLC size list                                            | Explicit List                                                                        |         | RCS3-215 |
| - RLC size index                                                  | Reference to clause 6 Parameter Set                                                  |         | RCS3-216 |
| - MAC logical channel priority                                    | 4                                                                                    |         | RCS3-217 |
| - Downlink RLC logical channel info                               |                                                                                      |         | RCS3-218 |
| - Number of RLC logical channels                                  | 1                                                                                    |         | RCS3-219 |
| - Downlink transport channel type                                 | FACH                                                                                 |         | RCS3-220 |
| - DL DCH Transport channel identity                               | Not Present                                                                          |         | RCS3-221 |
| - DL DSCH Transport channel identity                              | Not Present                                                                          |         | RCS3-222 |
| - Logical channel identity                                        | 4                                                                                    |         | RCS3-223 |
| UL Transport channel information for all transport channels       |                                                                                      |         | RCS3-224 |
| - PRACH TFCS                                                      | Not Present                                                                          |         | RCS3-225 |
| - CHOICE Mode                                                     | TDD                                                                                  |         | RCS3-226 |
| - Individual UL CCTrCH information                                |                                                                                      |         | RCS3-227 |
| - UL TFCS ID                                                      | (This IE is repeated for TFC number.)                                                |         | RCS3-228 |
| - UL TFCS                                                         |                                                                                      |         | RCS3-229 |
| - TFC subset                                                      | Default value is the complete existing set of transport format combinations          |         | RCS3-230 |
| - Allowed Transport Format combination                            | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.)                 |         | RCS3-231 |
| - PRACH TFCS                                                      | (This IE is repeated for TFC number.)                                                |         | RCS3-232 |
| - CHOICE TFCI signalling                                          | Normal                                                                               |         | RCS3-233 |
| - TFCI Field 1 information                                        |                                                                                      |         | RCS3-234 |
| - TFCS complete reconfigure                                       |                                                                                      |         | RCS3-235 |
| - CHOICE TFCS Size                                                | Number of used bits must be enough to cover all combinations of CTFC from clauses 6. |         | RCS3-236 |
| - CTFC information                                                | Refer to clause 6 Parameter Set                                                      |         | RCS3-237 |
| - CHOICE mode                                                     | Not Present                                                                          |         | RCS3-238 |
| - Individual UL CCTrCH information                                | TDD                                                                                  |         | RCS3-239 |
| Deleted TrCH information list                                     | Not Present                                                                          |         | RCS3-240 |
| Added or Reconfigured UL TrCH information list                    | 1                                                                                    |         | RCS3-241 |
| - Added or Reconfigured UL TrCH information                       |                                                                                      |         | RCS3-242 |
| - Uplink transport channel type                                   | DCH                                                                                  |         | RCS3-243 |
| - UL Transport channel identity                                   | 5                                                                                    |         | RCS3-244 |
| - TFS                                                             |                                                                                      |         | RCS3-245 |
| - CHOICE Transport channel type                                   | Dedicated transport channels                                                         |         | RCS3-246 |
| - Dynamic Transport Format Information                            |                                                                                      |         | RCS3-247 |
| - RLC size                                                        | According to clause 6                                                                |         | RCS3-248 |
| - Number of TBs and TTI List                                      | (This IE is repeated for TFI number)                                                 |         | RCS3-249 |
| - CHOICE mode                                                     | TDD                                                                                  |         | RCS3-250 |
| - Transmission Time Interval                                      | According to clause 6                                                                |         | RCS3-251 |
| - CHOICE Logical channel list                                     | All                                                                                  |         | RCS3-252 |
| - Semi-static Transport Format information                        |                                                                                      |         | RCS3-253 |
| DL Transport channel information common for all transport channel |                                                                                      |         | RCS3-254 |
| - SCCPCH TFCS                                                     | Not Present                                                                          |         | RCS3-255 |
| - CHOICE mode                                                     | TDD                                                                                  |         | RCS3-256 |
| - CHOICE DL parameters                                            | Same as UL                                                                           |         | RCS3-257 |
| Added or Reconfigured DL TrCH information list                    | 1                                                                                    |         | RCS3-258 |
| - Added or Reconfigured DL TrCH information                       |                                                                                      |         | RCS3-259 |
| - Downlink transport channel type                                 | DCH                                                                                  |         | RCS3-260 |
| - DL Transport channel identity                                   | 10                                                                                   |         | RCS3-261 |
| - CHOICE DL parameters                                            | Same as UL                                                                           |         | RCS3-262 |
| - Uplink transport channel type                                   | DCH                                                                                  |         | RCS3-263 |
| - UL TrCH Identity                                                | 5                                                                                    |         | RCS3-264 |
| - DCH quality target                                              |                                                                                      |         | RCS3-265 |
| - BLER Quality value                                              | Reference to the present document                                                    |         | RCS3-266 |
| Frequency info                                                    | Not Present                                                                          |         | RCS3-267 |
| Maximum allowed UL TX power                                       | Not Present                                                                          |         | RCS3-268 |
| CHOICE channel requirement                                        | Uplink DPCH info                                                                     |         | RCS3-269 |
| - Uplink DPCH power control info                                  |                                                                                      |         | RCS3-270 |
| - CHOICE mode                                                     | TDD                                                                                  |         | RCS3-271 |
| - CHOICE TDD option                                               | 3.84 Mcps                                                                            |         | RCS3-272 |

| Information Element                             | Value/remark                                                                             | Version            | Index    |
|-------------------------------------------------|------------------------------------------------------------------------------------------|--------------------|----------|
| - UL target SIR                                 | Reference to clause 6 Parameter set                                                      |                    | RCS3-273 |
| - CHOICE mode                                   | TDD                                                                                      |                    | RCS3-274 |
| - CHOICE <i>UL OL PC info</i>                   | Individually signalled                                                                   |                    | RCS3-275 |
| - CHOICE <i>TDD option</i>                      | 3.84 Mcps                                                                                |                    | RCS3-276 |
| - Individual timeslot interference info         | Not Present                                                                              |                    | RCS3-277 |
| - Individual timeslot interference              |                                                                                          |                    | RCS3-278 |
| - DPCH Constant Value                           |                                                                                          |                    | RCS3-279 |
| - Primary CCPCH Tx Power                        | Not Present                                                                              |                    | RCS3-280 |
| - Time info                                     |                                                                                          |                    | RCS3-281 |
| - Activation time                               | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                         |                    | RCS3-282 |
| - Duration                                      | Infinite                                                                                 |                    | RCS3-283 |
| - Common timeslot info                          |                                                                                          |                    | RCS3-284 |
| - 2 <sup>nd</sup> interleaving mode             | Reference to clause 6.10 Parameter Set                                                   |                    | RCS3-285 |
| - TFCI coding                                   | Reference to clause 6.10 Parameter Set                                                   |                    | RCS3-286 |
| - Puncturing Limit                              | Reference to clause 6.10 Parameter Set                                                   |                    | RCS3-287 |
| - Repetition Period                             | Reference to clause 6.10 Parameter Set                                                   |                    | RCS3-288 |
| - Repetition Length                             | Reference to clause 6.10 Parameter Set                                                   |                    | RCS3-289 |
| - Uplink DPCH timeslots and codes               | Default is to use the old timeslots and codes (no data)                                  | R99 and Rel-4 only | RCS3-290 |
| - CPCH SET Info                                 |                                                                                          |                    | RCS3-291 |
| Downlink information common for all radio links |                                                                                          |                    | RCS3-292 |
| - Downlink DPCH info common for all RL          |                                                                                          |                    | RCS3-293 |
| - Timing Indication                             | Initialize                                                                               |                    | RCS3-294 |
| - CFN-targetSFN frame offset                    | Not Present                                                                              |                    | RCS3-295 |
| - Downlink DPCH power control information       |                                                                                          |                    | RCS3-296 |
| - DPC mode                                      | 0 (single)                                                                               |                    | RCS3-297 |
| - CHOICE mode                                   | TDD                                                                                      |                    | RCS3-298 |
| - CHOICE TDD option                             | 3.84 Mcps (no data)                                                                      |                    | RCS3-299 |
| - Default DPCH Offset Value                     | Arbitrary set to value 0..306688 by step of 512                                          |                    | RCS3-300 |
| Downlink information for per radio links list   |                                                                                          |                    | RCS3-301 |
| -Downlink information for each radio links      |                                                                                          |                    | RCS3-302 |
| - CHOICE mode                                   | TDD                                                                                      |                    | RCS3-303 |
| - Primary CCPCH info                            |                                                                                          |                    | RCS3-304 |
| - CHOICE <i>SyncCase</i>                        | Sync Case 1                                                                              |                    | RCS3-305 |
| - Timeslot                                      | PCCPCH timeslot                                                                          |                    | RCS3-306 |
| - Cell parameters ID                            | 0                                                                                        |                    | RCS3-307 |
| - SCTD indicator                                |                                                                                          |                    | RCS3-308 |
| - Downlink DPCH info for each RL                |                                                                                          |                    | RCS3-309 |
| - CHOICE mode                                   | TDD                                                                                      |                    | RCS3-310 |
| - DL CCTrCH List                                |                                                                                          |                    | RCS3-311 |
| - TFCS ID                                       | 1                                                                                        |                    | RCS3-312 |
| - Time info                                     |                                                                                          |                    | RCS3-313 |
| - Activation time                               | (256+CFN-(CFN mod 8 + 8))mod 256                                                         |                    | RCS3-314 |
| - Duration                                      | infinite                                                                                 |                    | RCS3-315 |
| - Common timeslot info                          |                                                                                          |                    | RCS3-316 |
| - 2 <sup>nd</sup> interleaving mode             | Reference to the present document                                                        |                    | RCS3-317 |
| - TFCI coding                                   | TRUE                                                                                     |                    | RCS3-318 |
| - Puncturing limit                              | Reference to clause 6 Parameter set                                                      |                    | RCS3-319 |
| - Repetition period                             | 1                                                                                        |                    | RCS3-320 |
| - Repetition length                             | Empty                                                                                    |                    | RCS3-321 |
| - Downlink DPCH timeslots and codes             |                                                                                          |                    | RCS3-322 |
| - CHOICE <i>more timeslots</i>                  |                                                                                          |                    | RCS3-323 |
| - CHOICE TDD option                             | 3.84 Mcps                                                                                |                    | RCS3-324 |
| - Timeslot number                               | The number of a downlink timeslot that has unassigned codes in a frame.                  |                    | RCS3-325 |
| - Individual timeslot info                      |                                                                                          |                    | RCS3-326 |
| - TFCI existence                                | TRUE                                                                                     |                    | RCS3-327 |
| - Midamble shift and burst type                 |                                                                                          |                    | RCS3-328 |
| - CHOICE TDD option                             | 3.84 Mcps                                                                                |                    | RCS3-329 |
| -CHOICE Burst Type                              |                                                                                          |                    | RCS3-330 |
| -Type 1                                         |                                                                                          |                    | RCS3-331 |
| -Midamble Allocation Mode                       | Default                                                                                  |                    | RCS3-332 |
| - Midamble configuration burst                  | As defined in 3GPP TS 25.221 [28]                                                        |                    | RCS3-333 |
| type 1 and 3                                    |                                                                                          |                    |          |
| - First timeslot channelisation codes           |                                                                                          |                    | RCS3-334 |
| - First channelisation code                     | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in |                    | RCS3-335 |

| Information Element          | Value/remark                                                                                                                                                     | Version            | Index    |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| - Last channelisation code   | clause 6 Parameter Set..<br>(j/SF) where j is the highest numbered code that is being assigned in the slot.                                                      |                    | RCS3-336 |
| - CHOICE more timeslots      | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. |                    | RCS3-337 |
| - UL CCTrCH TPC List         | Not Present                                                                                                                                                      |                    | RCS3-338 |
| -SCCPCH information for FACH | Not Present                                                                                                                                                      | R99 and Rel-4 only | RCS3-339 |

## Contents of RRC CONNECTION SETUP message: UM (1.28 Mcps TDD)

| Information Element                                           | Value/remark                                                                                            | Version | Index    |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                                                  |                                                                                                         |         | RCS1-001 |
| Initial UE identity                                           | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message |         | RCS1-002 |
| RRC transaction identifier                                    | Arbitrarily selects an integer between 0 and 3                                                          |         | RCS1-003 |
| Activation time                                               | Not Present(Now)                                                                                        |         | RCS1-004 |
| New U-RNTI                                                    |                                                                                                         |         | RCS1-005 |
| - SRNC identity                                               | 0000 0000 0001B                                                                                         |         | RCS1-006 |
| - S-RNTI                                                      | 0000 0000 0000 0000 0001B                                                                               |         | RCS1-007 |
| New C-RNTI                                                    | Not Present                                                                                             |         | RCS1-008 |
| RRC State Indicator                                           | CELL_DCH                                                                                                |         | RCS1-009 |
| UTRAN DRX cycle length coefficient                            | 9                                                                                                       |         | RCS1-010 |
| Capability update requirement                                 |                                                                                                         |         | RCS1-011 |
| - UE radio access FDD capability update requirement           | FALSE                                                                                                   |         | RCS1-012 |
| - UE radio access 3.84 Mcps TDD capability update requirement | FALSE                                                                                                   | Rel-4   | RCS1-013 |
| - UE radio access 7.68 Mcps TDD capability update requirement | FALSE                                                                                                   | Rel-7   | RCS1-014 |
| - UE radio access 1.28 Mcps TDD capability update requirement | TRUE                                                                                                    | Rel-4   | RCS1-015 |
| - System specific capability update requirement list          | GSM                                                                                                     |         | RCS1-016 |
| CHOICE <i>specification mode</i>                              | Complete specification                                                                                  | Rel-5   | RCS1-017 |
| - Complete specification                                      |                                                                                                         | Rel-5   | RCS1-018 |
| - Signalling RB information to setup list                     | 4 SRBs                                                                                                  |         | RCS1-019 |
| - Signalling RB information to setup                          | (UM DCCH for RRC)                                                                                       |         | RCS1-020 |
| - RB identity                                                 | Not Present                                                                                             |         | RCS1-021 |
| - CHOICE RLC info type                                        | RLC info                                                                                                |         | RCS1-022 |
| - CHOICE Uplink RLC mode                                      | UM RLC                                                                                                  |         | RCS1-023 |
| - Transmission RLC discard                                    | Not Present                                                                                             |         | RCS1-024 |
| - CHOICE Downlink RLC mode                                    | UM RLC                                                                                                  |         | RCS1-025 |
| - DL UM RLC LI size                                           | 7 bit                                                                                                   | Rel-6   | RCS1-026 |
| - One sided RLC re-establishment                              | FALSE                                                                                                   | Rel-6   | RCS1-027 |
| - RB mapping info                                             |                                                                                                         |         | RCS1-028 |
| - Information for each multiplexing option                    | 2 RBMuxOptions                                                                                          |         | RCS1-029 |
| - RLC logical channel mapping indicator                       | Not Present                                                                                             |         | RCS1-030 |
| - Number of RLC logical channels                              | 1                                                                                                       |         | RCS1-031 |
| - Uplink transport channel type                               | DCH                                                                                                     |         | RCS1-032 |
| - UL Transport channel identity                               | 5                                                                                                       |         | RCS1-033 |
| - Logical channel identity                                    | 1                                                                                                       |         | RCS1-034 |
| - CHOICE RLC size list                                        | Configured                                                                                              |         | RCS1-035 |
| - MAC logical channel priority                                | 1                                                                                                       |         | RCS1-036 |
| - Downlink RLC logical channel info                           |                                                                                                         |         | RCS1-037 |
| - Number of RLC logical channels                              | 1                                                                                                       |         | RCS1-038 |
| - Downlink transport channel type                             | DCH                                                                                                     |         | RCS1-039 |
| - DL DCH Transport channel identity                           | 10                                                                                                      |         | RCS1-040 |
| - DL DSCH Transport channel identity                          | Not Present                                                                                             |         | RCS1-041 |
| - Logical channel identity                                    | 1                                                                                                       |         | RCS1-042 |
| - RLC logical channel mapping indicator                       | Not Present                                                                                             |         | RCS1-043 |
| - Number of RLC logical channels                              | 1                                                                                                       |         | RCS1-044 |
| - Uplink transport channel type                               | RACH                                                                                                    |         | RCS1-045 |

| Information Element                        | Value/remark                        | Version | Index    |
|--------------------------------------------|-------------------------------------|---------|----------|
| - UL Transport channel identity            | Not Present                         |         | RCS1-046 |
| - Logical channel identity                 | 1                                   |         | RCS1-047 |
| - CHOICE RLC size list                     | Explicit List                       |         | RCS1-048 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS1-049 |
| - MAC logical channel priority             | 1                                   |         | RCS1-050 |
| - Downlink RLC logical channel info        |                                     |         | RCS1-051 |
| - Number of RLC logical channels           | 1                                   |         | RCS1-052 |
| - Downlink transport channel type          | FACH                                |         | RCS1-053 |
| - DL DCH Transport channel identity        | Not Present                         |         | RCS1-054 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS1-055 |
| - Logical channel identity                 | 1                                   |         | RCS1-056 |
| - Signalling RB information to setup       | (AM DCCH for RRC)                   |         | RCS1-057 |
| - RB identity                              | Not Present                         |         | RCS1-058 |
| - CHOICE RLC info type                     |                                     |         | RCS1-059 |
| - RLC info                                 |                                     |         | RCS1-060 |
| - CHOICE Uplink RLC mode                   | AM RLC                              |         | RCS1-061 |
| - Transmission RLC discard                 |                                     |         | RCS1-062 |
| - SDU discard mode                         | No Discard                          |         | RCS1-063 |
| - MAX_DAT                                  | 15                                  |         | RCS1-064 |
| - Transmission window size                 | 128                                 | Rel-6   | RCS1-065 |
| - Timer_RST                                | 500                                 |         | RCS1-066 |
| - Max_RST                                  | 4                                   |         | RCS1-067 |
| - Polling info                             |                                     |         | RCS1-068 |
| - Timer_poll_prohibit                      | 200                                 |         | RCS1-069 |
| - Timer_poll                               | 200                                 |         | RCS1-070 |
| - Poll_PDU                                 | Not Present                         |         | RCS1-071 |
| - Poll_SDU                                 | 1                                   |         | RCS1-072 |
| - Last transmission PDU poll               | TRUE                                |         | RCS1-073 |
| - Last retransmission PDU poll             | TRUE                                |         | RCS1-074 |
| - Poll_Windows                             | 99                                  |         | RCS1-075 |
| - Timer_poll_periodic                      | Not Present                         |         | RCS1-076 |
| - CHOICE Downlink RLC mode                 | AM RLC                              |         | RCS1-077 |
| - DL RLC PDU size                          | 96 bits                             |         | RCS1-078 |
| - In-sequence delivery                     | TRUE                                |         | RCS1-079 |
| - Receiving window size                    | 128                                 |         | RCS1-080 |
| - Downlink RLC status info                 |                                     |         | RCS1-081 |
| - Timer_status_prohibit                    | 200                                 |         | RCS1-082 |
| - Timer_EPC                                | Not Present                         |         | RCS1-083 |
| - Missing PDU indicator                    | TRUE                                |         | RCS1-084 |
| - Timer_STATUS_periodic                    | Not Present                         |         | RCS1-085 |
| - RB mapping info                          |                                     |         | RCS1-086 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RCS1-087 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS1-088 |
| - Number of RLC logical channels           | 1                                   |         | RCS1-089 |
| - Uplink transport channel type            | DCH                                 |         | RCS1-090 |
| - UL Transport channel identity            | 5                                   |         | RCS1-091 |
| - Logical channel identity                 | 2                                   |         | RCS1-092 |
| - CHOICE RLC size list                     | Configured                          |         | RCS1-093 |
| - MAC logical channel priority             | 2                                   |         | RCS1-094 |
| - Downlink RLC logical channel info        |                                     |         | RCS1-095 |
| - Number of RLC logical channels           | 1                                   |         | RCS1-096 |
| - Downlink transport channel type          | DCH                                 |         | RCS1-097 |
| - DL DCH Transport channel identity        | 10                                  |         | RCS1-098 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS1-099 |
| - Logical channel identity                 | 2                                   |         | RCS1-100 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS1-101 |
| - Number of RLC logical channels           | 1                                   |         | RCS1-102 |
| - Uplink transport channel type            | RACH                                |         | RCS1-103 |
| - UL Transport channel identity            | Not Present                         |         | RCS1-104 |
| - Logical channel identity                 | 2                                   |         | RCS1-105 |
| - CHOICE RLC size list                     | Explicit List                       |         | RCS1-106 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS1-107 |
| - MAC logical channel priority             | 2                                   |         | RCS1-108 |
| - Downlink RLC logical channel info        |                                     |         | RCS1-109 |
| - Number of RLC logical channels           | 1                                   |         | RCS1-110 |
| - Downlink transport channel type          | FACH                                |         | RCS1-111 |
| - DL DCH Transport channel identity        | Not Present                         |         | RCS1-112 |

| Information Element                        | Value/remark                        | Version | Index    |
|--------------------------------------------|-------------------------------------|---------|----------|
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS1-113 |
| - Logical channel identity                 | 2                                   |         | RCS1-114 |
| - Signalling RB information to setup       | (AM DCCH for NAS_DT High priority)  |         | RCS1-115 |
| - RB identity                              | Not Present                         |         | RCS1-116 |
| - CHOICE RLC info type                     |                                     |         | RCS1-117 |
| - RLC info                                 |                                     |         | RCS1-118 |
| - CHOICE Uplink RLC mode                   | AM RLC                              |         | RCS1-119 |
| - Transmission RLC discard                 |                                     |         | RCS1-120 |
| - SDU discard mode                         | No Discard                          |         | RCS1-121 |
| - MAX_DAT                                  | 15                                  |         | RCS1-122 |
| - Transmission window size                 | 128                                 |         | RCS1-123 |
| - Timer_RST                                | 500                                 |         | RCS1-124 |
| - Max_RST                                  | 4                                   |         | RCS1-125 |
| - Polling info                             |                                     |         | RCS1-126 |
| - Timer_poll_prohibit                      | 200                                 |         | RCS1-127 |
| - Timer_poll                               | 200                                 |         | RCS1-128 |
| - Poll_PDU                                 | Not Present                         |         | RCS1-129 |
| - Poll_SDU                                 | 1                                   |         | RCS1-130 |
| - Last transmission PDU poll               | TRUE                                |         | RCS1-131 |
| - Last retransmission PDU poll             | TRUE                                |         | RCS1-132 |
| - Poll_Windows                             | 99                                  | Rel-6   | RCS1-133 |
| - Timer_poll_periodic                      | Not Present                         |         | RCS1-134 |
| - CHOICE Downlink RLC mode                 | AM RLC                              |         | RCS1-135 |
| - DL RLC PDU size                          | 96 bits                             |         | RCS1-136 |
| - In-sequence delivery                     | TRUE                                |         | RCS1-137 |
| - Receiving window size                    | 128                                 |         | RCS1-138 |
| - Downlink RLC status info                 |                                     |         | RCS1-139 |
| - Timer_status_prohibit                    | 200                                 |         | RCS1-140 |
| - Timer_EPC                                | Not Present                         |         | RCS1-141 |
| - Missing PDU indicator                    | TRUE                                |         | RCS1-142 |
| - Timer_STATUS_periodic                    | Not Present                         |         | RCS1-143 |
| - RB mapping info                          |                                     |         | RCS1-144 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RCS1-145 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS1-146 |
| - Number of RLC logical channels           | 1                                   |         | RCS1-147 |
| - Uplink transport channel type            | DCH                                 |         | RCS1-148 |
| -UL Transport channel identity             | 5                                   |         | RCS1-149 |
| - Logical channel identity                 | 3                                   |         | RCS1-150 |
| - CHOICE RLC size list                     | Configured                          |         | RCS1-151 |
| - MAC logical channel priority             | 3                                   |         | RCS1-152 |
| - Downlink RLC logical channel info        |                                     |         | RCS1-153 |
| - Number of RLC logical channels           | 1                                   |         | RCS1-154 |
| - Downlink transport channel type          | DCH                                 |         | RCS1-155 |
| - DL DCH Transport channel identity        | 10                                  |         | RCS1-156 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS1-157 |
| - Logical channel identity                 | 3                                   |         | RCS1-158 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS1-159 |
| - Number of RLC logical channels           | 1                                   |         | RCS1-160 |
| - Uplink transport channel type            | RACH                                |         | RCS1-161 |
| - UL Transport channel identity            | Not Present                         |         | RCS1-162 |
| - Logical channel identity                 | 3                                   |         | RCS1-163 |
| - CHOICE RLC size list                     | Explicit List                       |         | RCS1-164 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS1-165 |
| - MAC logical channel priority             | 3                                   |         | RCS1-166 |
| - Downlink RLC logical channel info        |                                     |         | RCS1-167 |
| - Number of RLC logical channels           | 1                                   |         | RCS1-168 |
| - Downlink transport channel type          | FACH                                |         | RCS1-169 |
| - DL DCH Transport channel identity        | Not Present                         |         | RCS1-170 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS1-171 |
| - Logical channel identity                 | 3                                   |         | RCS1-172 |
| - Signalling RB information to setup       | (AM DCCH for NAS_DT Low priority)   |         | RCS1-173 |
| - RB identity                              | Not Present                         |         | RCS1-174 |
| - CHOICE RLC info type                     |                                     |         | RCS1-175 |
| - RLC info                                 |                                     |         | RCS1-176 |
| - CHOICE Uplink RLC mode                   | AM RLC                              |         | RCS1-177 |
| - Transmission RLC discard                 |                                     |         | RCS1-178 |
| - SDU discard mode                         | No Discard                          |         | RCS1-179 |



| Information Element                                         | Value/remark                        | Version | Index    |
|-------------------------------------------------------------|-------------------------------------|---------|----------|
| - MAX_DAT                                                   | 15                                  | Rel-6   | RCS1-180 |
| - Transmission window size                                  | 128                                 |         | RCS1-181 |
| - Timer_RST                                                 | 500                                 |         | RCS1-182 |
| - Max_RST                                                   | 4                                   |         | RCS1-183 |
| - Polling info                                              |                                     |         | RCS1-184 |
| - Timer_poll_prohibit                                       | 200                                 |         | RCS1-185 |
| - Timer_poll                                                | 200                                 |         | RCS1-186 |
| - Poll_PDU                                                  | Not Present                         |         | RCS1-187 |
| - Poll_SDU                                                  | 1                                   |         | RCS1-188 |
| - Last transmission PDU poll                                | TRUE                                |         | RCS1-189 |
| - Last retransmission PDU poll                              | TRUE                                |         | RCS1-190 |
| - Poll_Windows                                              | 99                                  |         | RCS1-191 |
| - Timer_poll_periodic                                       | Not Present                         |         | RCS1-192 |
| - CHOICE Downlink RLC mode                                  | AM RLC                              |         | RCS1-193 |
| - DL RLC PDU size                                           | 96 bits                             |         | RCS1-194 |
| - In-sequence delivery                                      | TRUE                                |         | RCS1-195 |
| - Receiving window size                                     | 128                                 |         | RCS1-196 |
| - Downlink RLC status info                                  |                                     |         | RCS1-197 |
| - Timer_status_prohibit                                     | 200                                 |         | RCS1-198 |
| - Timer_EPC                                                 | Not Present                         |         | RCS1-199 |
| - Missing PDU indicator                                     | TRUE                                |         | RCS1-200 |
| - Timer_STATUS_periodic                                     | Not Present                         |         | RCS1-201 |
| - RB mapping info                                           |                                     |         | RCS1-202 |
| - Information for each multiplexing option                  | 2 RBMuxOptions                      |         | RCS1-203 |
| - RLC logical channel mapping indicator                     | Not Present                         |         | RCS1-204 |
| - Number of RLC logical channels                            | 1                                   |         | RCS1-205 |
| - Uplink transport channel type                             | DCH                                 |         | RCS1-206 |
| - UL Transport channel identity                             | 5                                   |         | RCS1-207 |
| - Logical channel identity                                  | 4                                   |         | RCS1-208 |
| - CHOICE RLC size list                                      | Configured                          |         | RCS1-209 |
| - MAC logical channel priority                              | 4                                   |         | RCS1-210 |
| - Downlink RLC logical channel info                         |                                     |         | RCS1-211 |
| - Number of RLC logical channels                            | 1                                   |         | RCS1-212 |
| - Downlink transport channel type                           | DCH                                 |         | RCS1-213 |
| - DL DCH Transport channel identity                         | 10                                  |         | RCS1-214 |
| - DL DSCH Transport channel identity                        | Not Present                         |         | RCS1-215 |
| - Logical channel identity                                  | 4                                   |         | RCS1-216 |
| - RLC logical channel mapping indicator                     | Not Present                         |         | RCS1-217 |
| - Number of RLC logical channels                            | 1                                   |         | RCS1-218 |
| - Uplink transport channel type                             | RACH                                |         | RCS1-219 |
| - UL Transport channel identity                             | Not Present                         |         | RCS1-220 |
| - Logical channel identity                                  | 4                                   |         | RCS1-221 |
| - CHOICE RLC size list                                      | Explicit List                       |         | RCS1-222 |
| - RLC size index                                            | Reference to clause 6 Parameter Set |         | RCS1-223 |
| - MAC logical channel priority                              | 4                                   |         | RCS1-224 |
| - Downlink RLC logical channel info                         |                                     |         | RCS1-225 |
| - Number of RLC logical channels                            | 1                                   |         | RCS1-226 |
| - Downlink transport channel type                           | FACH                                |         | RCS1-227 |
| - DL DCH Transport channel identity                         | Not Present                         |         | RCS1-228 |
| - DL DSCH Transport channel identity                        | Not Present                         |         | RCS1-229 |
| - Logical channel identity                                  | 4                                   |         | RCS1-230 |
| UL Transport channel information for all transport channels |                                     |         | RCS1-231 |
| - PRACH TFCS                                                | Not Present                         |         | RCS1-232 |
| - CHOICE Mode                                               | TDD                                 |         | RCS1-233 |
| - Individual UL CCTrCH information                          |                                     |         | RCS1-234 |
| - UL TFCS Identity                                          |                                     |         | RCS1-235 |
| - TFCS ID                                                   | 1                                   |         | RCS1-236 |
| - Shared Channel Indicator                                  | FALSE                               |         | RCS1-237 |
| - UL TFCS                                                   |                                     |         | RCS1-238 |
| - CHOICE TFCSI signalling                                   | Normal                              |         | RCS1-239 |
| - TFCSI Field 1 Information                                 |                                     |         | RCS1-240 |
| - CHOICE TFCS representation                                | Complete reconfiguration            |         | RCS1-241 |
| - TFCS complete reconfiguration                             |                                     |         | RCS1-242 |
| information                                                 |                                     |         |          |
| - CHOICE CTFC Size                                          | 2 bit CTFC                          |         | RCS1-243 |
| - CTFC information                                          | 2 TFCs                              |         | RCS1-244 |

| Information Element                                               | Value/remark                          | Version | Index    |
|-------------------------------------------------------------------|---------------------------------------|---------|----------|
| - 2 bit CTFC                                                      | 0                                     | Rel-4   | RCS1-245 |
| - Power offset Information                                        | Not Present                           |         | RCS1-246 |
| - 2 bit CTFC                                                      | 1                                     |         | RCS1-247 |
| - Power offset Information                                        | Not Present                           |         | RCS1-248 |
| - TFC subset                                                      | Full transport format combination set |         | RCS1-249 |
| - no data                                                         |                                       |         | RCS1-250 |
| - TFC subset list                                                 | Not Present                           |         | RCS1-251 |
| Deleted TrCH information list                                     | Not Present                           |         | RCS1-252 |
| Added or Reconfigured UL TrCH information list                    | 1                                     |         | RCS1-253 |
| - Added or Reconfigured UL TrCH information                       |                                       |         | RCS1-254 |
| - Uplink transport channel type                                   | DCH                                   |         | RCS1-255 |
| - UL Transport channel identity                                   | 5                                     |         | RCS1-256 |
| - TFS                                                             |                                       |         | RCS1-257 |
| - CHOICE Transport channel type                                   | Dedicated transport channels          |         | RCS1-258 |
| - Dynamic Transport Format Information                            |                                       |         | RCS1-259 |
| - RLC size                                                        | 96 bits                               |         | RCS1-260 |
| - Number of TBs and TTI List                                      | 2                                     |         | RCS1-261 |
| - Transmission Time Interval                                      | Not Present                           |         | RCS1-262 |
| - Number of Transport blocks                                      | 0                                     |         | RCS1-263 |
| - Transmission Time Interval                                      | Not Present                           |         | RCS1-264 |
| - Number of Transport blocks                                      | 1                                     |         | RCS1-265 |
| - CHOICE Logical channel list                                     | All                                   |         | RCS1-266 |
| - Semi-static Transport Format information                        |                                       |         | RCS1-267 |
| - Transmission time interval                                      | 40                                    |         | RCS1-268 |
| - Type of channel coding                                          | Convolutional                         |         | RCS1-269 |
| - Coding Rate                                                     | 1/3                                   |         | RCS1-270 |
| - Rate matching attribute                                         | 240                                   |         | RCS1-271 |
| - CRC size                                                        | 12                                    |         | RCS1-272 |
| DL Transport channel information common for all transport channel |                                       |         | RCS1-273 |
| - SCCPCH TFCS                                                     | Not Present                           | Rel-4   | RCS1-274 |
| - CHOICE mode                                                     | TDD                                   |         | RCS1-275 |
| - CHOICE DL parameters                                            | Same as UL                            |         | RCS1-276 |
| Added or Reconfigured DL TrCH information list                    | 1                                     |         | RCS1-277 |
| - Added or Reconfigured DL TrCH information                       |                                       |         | RCS1-278 |
| - Downlink transport channel type                                 | DCH                                   |         | RCS1-279 |
| - DL Transport channel identity                                   | 10                                    |         | RCS1-280 |
| - CHOICE DL parameters                                            | Same as UL                            |         | RCS1-281 |
| - Uplink transport channel type                                   | DCH                                   |         | RCS1-282 |
| - UL TrCH Identity                                                | 5                                     |         | RCS1-283 |
| - DCH quality target                                              |                                       |         | RCS1-284 |
| - BLER Quality value                                              | -20 (-2.0)                            |         | RCS1-285 |
| Frequency info                                                    | Not Present                           |         | RCS1-286 |
| Maximum allowed UL TX power                                       | Not Present                           |         | RCS1-287 |
| CHOICE channel requirement                                        | Uplink DPCH info                      |         | RCS1-288 |
| - Uplink DPCH power control info                                  |                                       |         | RCS1-289 |
| - CHOICE mode                                                     | TDD                                   |         | RCS1-290 |
| - CHOICE <i>TDD option</i>                                        | 1.28 Mcps                             | Rel-4   | RCS1-291 |
| - $PRX_{PDPCHdes}$                                                | Reference to clause 6 Parameter set   | Rel-4   | RCS1-292 |
| - CHOICE mode                                                     | TDD                                   | Rel-4   | RCS1-293 |
| - CHOICE <i>UL OL PC info</i>                                     | Individually signalled                |         | RCS1-294 |
| - CHOICE <i>TDD option</i>                                        | 1.28 Mcps                             | Rel-4   | RCS1-295 |
| - Beacon PL Est.                                                  | Not Present                           | Rel-6   | RCS1-296 |
| - TPC step size                                                   | 1 dB                                  | Rel-4   | RCS1-297 |
| - Primary CCPCH Tx Power                                          | 30 dBm                                | Rel-4   | RCS1-298 |
|                                                                   |                                       |         | RCS1-299 |
| - CHOICE mode                                                     | TDD                                   |         | RCS1-300 |
| - Uplink Timing Advance Control                                   |                                       |         | RCS1-301 |
| - CHOICE Timing Advance                                           | enabled                               |         | RCS1-302 |
| - CHOICE TDD option                                               | 1.28 Mcps                             |         | RCS1-303 |
| - Uplink synchronization parameters                               |                                       |         | RCS1-304 |
| - Uplink synchronization step size                                | 1                                     |         | RCS1-305 |
| - Uplink synchronization frequency                                | 1                                     |         | RCS1-306 |
| - Synchronization parameters                                      | Not present                           |         | RCS1-307 |
| - UL CCTrCH List                                                  |                                       | Rel-4   | RCS1-308 |
| - TFCS ID                                                         | 1                                     |         | RCS1-309 |
| - $PRX_{PDPCHdes}$                                                | Reference to clause 6 Parameter set   |         | RCS1-310 |

| Information Element                             | Value/remark                                                                                                  | Version | Index    |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------|----------|
| - Time info                                     |                                                                                                               |         | RCS1-311 |
| - Activation time                               | Not present                                                                                                   |         | RCS1-312 |
| - Duration                                      | Not present                                                                                                   |         | RCS1-313 |
| - Common timeslot info                          |                                                                                                               |         | RCS1-314 |
| - 2 <sup>nd</sup> interleaving mode             | Frame                                                                                                         |         | RCS1-315 |
| - TFCI coding                                   | 8 bits                                                                                                        |         | RCS1-316 |
| - Puncturing Limit                              | 1.0                                                                                                           |         | RCS1-317 |
| - Repetition Period                             | 1                                                                                                             |         | RCS1-318 |
| - Repetition Length                             | Null                                                                                                          |         | RCS1-319 |
| - CHOICE TDD option                             | 1.28 Mcps                                                                                                     | Rel-7   | RCS1-320 |
| - Uplink DPCH timeslots and codes LCR           | Default is to use the old timeslots and codes                                                                 | Rel-7   | RCS1-321 |
| - Dynamic SF usage                              | FALSE                                                                                                         |         | RCS1-322 |
| - First individual timeslot info                |                                                                                                               |         | RCS1-323 |
| - Timeslot number                               |                                                                                                               |         | RCS1-324 |
| - CHOICE TDD option                             | 1.28 Mcps TDD                                                                                                 | Rel-4   | RCS1-325 |
| - Timeslot number                               | 1 OR 2 OR 3                                                                                                   |         | RCS1-326 |
| - TFCI existence                                | TRUE                                                                                                          |         | RCS1-327 |
| - Midamble shift and burst type                 |                                                                                                               |         | RCS1-328 |
| - CHOICE TDD option                             | 1.28 Mcps TDD                                                                                                 | Rel-4   | RCS1-329 |
| - Midamble allocation mode                      | Default midamble                                                                                              |         | RCS1-330 |
| - Midamble configuration                        | 4 (k=8)                                                                                                       |         | RCS1-331 |
| - Midamble Shift                                | Not Present                                                                                                   |         | RCS1-332 |
| - CHOICE TDD option                             | 1.28 Mcps TDD                                                                                                 | Rel-4   | RCS1-333 |
| - Modulation                                    | QPSK                                                                                                          |         | RCS1-334 |
| - SS-TPC Symbols                                | 1                                                                                                             |         | RCS1-335 |
| - Additional TPC-SS Symbols                     | Not Present                                                                                                   |         | RCS1-336 |
| - First timeslot Code List                      | Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of clause 6 Parameter Set. |         | RCS1-337 |
| - channelisation codes                          | (SF/ i) where i denotes an unassigned code matching the SF specified in clause 6 Parameter Set.               |         | RCS1-338 |
| - CHOICE more timeslots                         | No more timeslots                                                                                             |         | RCS1-339 |
| Downlink information common for all radio links |                                                                                                               |         | RCS1-340 |
| - Downlink DPCH info common for all RL          |                                                                                                               |         | RCS1-341 |
| - Timing Indication                             | Initialize                                                                                                    |         | RCS1-342 |
| - CFN-targetSFN frame offset                    | Not Present                                                                                                   |         | RCS1-343 |
| - Downlink DPCH power control information       |                                                                                                               |         | RCS1-344 |
| - CHOICE mode                                   | TDD                                                                                                           |         | RCS1-345 |
| - TPC Step Size                                 | 1                                                                                                             |         | RCS1-346 |
| - CHOICE mode                                   | TDD                                                                                                           |         | RCS1-347 |
| - CHOICE TDD option                             | 1.28 Mcps                                                                                                     | Rel-4   | RCS1-348 |
| - TSTD indicator                                | FALSE                                                                                                         |         | RCS1-349 |
| - Default DPCH Offset Value                     | Arbitrary set to value 0..306688 by step of 512                                                               |         | RCS1-350 |
| Downlink information for per radio links list   |                                                                                                               |         | RCS1-351 |
| - Downlink information for each radio links     |                                                                                                               |         | RCS1-352 |
| - CHOICE mode                                   | TDD                                                                                                           |         | RCS1-353 |
| - Primary CCPCH info                            |                                                                                                               |         | RCS1-354 |
| - CHOICE mode                                   | TDD                                                                                                           |         | RCS1-355 |
| - CHOICE TDD option                             | 1.28 Mcps                                                                                                     | Rel-4   | RCS1-356 |
| - TSTD indicator                                | FALSE                                                                                                         |         | RCS1-357 |
| - Cell parameters ID                            | 0                                                                                                             |         | RCS1-358 |
| - SCTD indicator                                | FALSE                                                                                                         |         | RCS1-359 |
| - Downlink DPCH info for each RL                |                                                                                                               |         | RCS1-360 |
| - CHOICE mode                                   | TDD                                                                                                           |         | RCS1-361 |
| - DL CCTrCH List                                |                                                                                                               |         | RCS1-362 |
| - TFCS ID                                       | 1                                                                                                             |         | RCS1-363 |
| - Time info                                     |                                                                                                               |         | RCS1-364 |
| - Activation time                               | Not present                                                                                                   |         | RCS1-365 |
| - Duration                                      | Not present                                                                                                   |         | RCS1-366 |
| - Common timeslot info                          |                                                                                                               |         | RCS1-367 |
| - 2 <sup>nd</sup> interleaving mode             | Frame                                                                                                         |         | RCS1-368 |
| - TFCI coding                                   | 8 bits                                                                                                        |         | RCS1-369 |
| - Puncturing limit                              | 1.0                                                                                                           |         | RCS1-370 |
| - Repetition period                             | 1                                                                                                             |         | RCS1-371 |
| - Repetition length                             | Empty                                                                                                         |         | RCS1-372 |

| Information Element                   | Value/remark                                                                                                                                                     | Version            | Index    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| - Downlink DPCH timeslots and codes   | 1.28 Mcps<br>The number of a downlink timeslot that has unassigned codes in a subframe.                                                                          | Rel-4              | RCS1-373 |
| - First Individual timeslot info      |                                                                                                                                                                  |                    | RCS1-374 |
| - Timeslot number                     | TRUE                                                                                                                                                             | Rel-4              | RCS1-375 |
| - CHOICE TDD option                   |                                                                                                                                                                  |                    | RCS1-376 |
| - Timeslot number                     | 1.28 Mcps                                                                                                                                                        | Rel-4              | RCS1-377 |
| - TFCI existence                      |                                                                                                                                                                  |                    | RCS1-378 |
| - Midamble shift and burst type       | Default midamble                                                                                                                                                 | Rel-4              | RCS1-379 |
| - CHOICE TDD option                   |                                                                                                                                                                  |                    | RCS1-380 |
| - Midamble Allocation Mode            | As defined in 3GPP TS 25.221 [28]                                                                                                                                | Rel-4              | RCS1-381 |
| - Midamble configuration              |                                                                                                                                                                  |                    | RCS1-382 |
| - Midamble Shift                      | Not present                                                                                                                                                      | Rel-4              | RCS1-383 |
| - CHOICE TDD option                   |                                                                                                                                                                  |                    | RCS1-384 |
| - Modulation                          | QPSK                                                                                                                                                             | Rel-4              | RCS1-385 |
| - SS-TPC Symbols                      |                                                                                                                                                                  |                    | RCS1-386 |
| - Additional TPC-SS Symbols           | Not present                                                                                                                                                      | Rel-4              | RCS1-387 |
| - First timeslot channelisation codes |                                                                                                                                                                  |                    | RCS1-388 |
| - First channelisation code           | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.                                                 | Rel-4              | RCS1-389 |
| - Last channelisation code            |                                                                                                                                                                  |                    | RCS1-390 |
| - CHOICE more timeslots               | The presence of this IE depends upon whether the requirements of clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot. | Rel-4              | RCS1-391 |
| - UL CCTrCH TPC List                  |                                                                                                                                                                  |                    | RCS1-392 |
| -SCCPCH information for FACH          | Not Present                                                                                                                                                      | R99 and Rel-4 only | RCS1-393 |

## Contents of RRC CONNECTION SETUP message: UM (7.68 Mcps TDD)

| Information Element                                  | Value/remark                                                                                            | Version | Index    |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------|----------|
| Message Type                                         | Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message | Rel-6   | RCS7-001 |
| Initial UE identity                                  |                                                                                                         |         | RCS7-002 |
| RRC transaction identifier                           | Arbitrarily selects an integer between 0 and 3                                                          | Rel-7   | RCS7-003 |
| Activation time                                      |                                                                                                         |         | RCS7-004 |
| New U-RNTI                                           | Not Present                                                                                             | Rel-7   | RCS7-005 |
| - SRNC identity                                      |                                                                                                         |         | RCS7-006 |
| - S-RNTI                                             | Not Present                                                                                             | Rel-7   | RCS7-007 |
| New C-RNTI                                           |                                                                                                         |         | RCS7-008 |
| New H-RNTI                                           | Not Present                                                                                             | Rel-7   | RCS7-009 |
| CHOICE mode                                          |                                                                                                         |         | RCS7-010 |
| - New E-RNTI                                         | CELL_DCH                                                                                                | Rel-7   | RCS7-011 |
| RRC State Indicator                                  |                                                                                                         |         | RCS7-012 |
| UTRAN DRX cycle length coefficient                   | 9                                                                                                       | Rel-7   | RCS7-013 |
| Capability update requirement                        |                                                                                                         |         | RCS7-014 |
| - UE radio access FDD capability update requirement  | FALSE                                                                                                   | Rel-7   | RCS7-015 |
| - UE radio access TDD capability update requirement  |                                                                                                         |         | RCS7-016 |
| - System specific capability update requirement list | GSM                                                                                                     | Rel-5   | RCS7-017 |
| CHOICE <i>specification mode</i>                     |                                                                                                         |         | RCS7-018 |
| - Complete specification                             | Complete specification                                                                                  | Rel-5   | RCS7-019 |
| - Signalling RB information to setup list            |                                                                                                         |         | RCS7-020 |
| - Signalling RB information to setup                 | 4 SRBs                                                                                                  | Rel-5   | RCS7-021 |
| - RB identity                                        |                                                                                                         |         | RCS7-022 |
| - CHOICE RLC info type                               | Not Present                                                                                             | Rel-5   | RCS7-023 |
| - CHOICE Uplink RLC mode                             |                                                                                                         |         | RCS7-024 |
| - Transmission RLC discard                           | UM RLC                                                                                                  | Rel-5   | RCS7-025 |
| - CHOICE Downlink RLC mode                           |                                                                                                         |         | RCS7-026 |
| - RB mapping info                                    | UM RLC                                                                                                  | Rel-5   | RCS7-027 |
| - Information for each multiplexing option           |                                                                                                         |         | RCS7-028 |

| Information Element                        | Value/remark                        | Version | Index    |
|--------------------------------------------|-------------------------------------|---------|----------|
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS7-029 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-030 |
| - Uplink transport channel type            | DCH                                 |         | RCS7-031 |
| - UL Transport channel identity            | 5                                   |         | RCS7-032 |
| - Logical channel identity                 | 1                                   |         | RCS7-033 |
| - CHOICE RLC size list                     | Configured                          |         | RCS7-034 |
| - MAC logical channel priority             | 1                                   |         | RCS7-035 |
| - Downlink RLC logical channel info        |                                     |         | RCS7-036 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-037 |
| - Downlink transport channel type          | DCH                                 |         | RCS7-038 |
| - DL DCH Transport channel identity        | 10                                  |         | RCS7-039 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS7-040 |
| - Logical channel identity                 | 1                                   |         | RCS7-041 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS7-042 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-043 |
| - Uplink transport channel type            | RACH                                |         | RCS7-044 |
| - UL Transport channel identity            | Not Present                         |         | RCS7-045 |
| - Logical channel identity                 | 1                                   |         | RCS7-046 |
| - CHOICE RLC size list                     | Configured                          |         | RCS7-047 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS7-048 |
| - MAC logical channel priority             | 1                                   |         | RCS7-049 |
| - Downlink RLC logical channel info        |                                     |         | RCS7-050 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-051 |
| - Downlink transport channel type          | FACH                                |         | RCS7-052 |
| - DL DCH Transport channel identity        | Not Present                         |         | RCS7-053 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS7-054 |
| - Logical channel identity                 | 1                                   |         | RCS7-055 |
| - Signalling RB information to setup       | (AM DCCH for RRC)                   |         | RCS7-056 |
| - RB identity                              | Not Present                         |         | RCS7-057 |
| - CHOICE RLC info type                     |                                     |         | RCS7-058 |
| - RLC info                                 |                                     |         | RCS7-059 |
| - CHOICE Uplink RLC mode                   | AM RLC                              |         | RCS7-060 |
| - Transmission RLC discard                 |                                     |         | RCS7-061 |
| - SDU discard mode                         | No Discard                          |         | RCS7-062 |
| - MAX_DAT                                  | 415                                 |         | RCS7-063 |
| - Transmission window size                 | 128                                 |         | RCS7-064 |
| - Timer_RST                                | 500                                 |         | RCS7-065 |
| - Max_RST                                  | 4                                   |         | RCS7-066 |
| - Polling info                             |                                     |         | RCS7-067 |
| - Timer_poll_prohibit                      | 200                                 |         | RCS7-068 |
| - Timer_poll                               | 200                                 |         | RCS7-069 |
| - Poll_PDU                                 | Not Present                         |         | RCS7-070 |
| - Poll_SDU                                 | 1                                   |         | RCS7-071 |
| - Last transmission PDU poll               | TRUE                                |         | RCS7-072 |
| - Last retransmission PDU poll             | TRUE                                |         | RCS7-073 |
| - Poll_Windows                             | 99                                  |         | RCS7-074 |
| - Timer_poll_periodic                      | Not Present                         |         | RCS7-075 |
| - CHOICE Downlink RLC mode                 | AM RLC                              |         | RCS7-076 |
| - In-sequence delivery                     | TRUE                                |         | RCS7-077 |
| - Receiving window size                    | 128                                 |         | RCS7-078 |
| - Downlink RLC status info                 |                                     |         | RCS7-079 |
| - Timer_status_prohibit                    | 200                                 |         | RCS7-080 |
| - Timer_EPC                                | Not Present                         |         | RCS7-081 |
| - Missing PDU indicator                    | TRUE                                |         | RCS7-082 |
| - Timer_STATUS_periodic                    | Not Present                         |         | RCS7-083 |
| - RB mapping info                          |                                     |         | RCS7-084 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RCS7-085 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS7-086 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-087 |
| - Uplink transport channel type            | DCH                                 |         | RCS7-088 |
| - UL Transport channel identity            | 5                                   |         | RCS7-089 |
| - Logical channel identity                 | 2                                   |         | RCS7-090 |
| - CHOICE RLC size list                     | Configured                          |         | RCS7-091 |
| - MAC logical channel priority             | 2                                   |         | RCS7-092 |
| - Downlink RLC logical channel info        |                                     |         | RCS7-093 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-094 |
| - Downlink transport channel type          | DCH                                 |         | RCS7-095 |

| Information Element                        | Value/remark                        | Version | Index    |
|--------------------------------------------|-------------------------------------|---------|----------|
| - DL DCH Transport channel identity        | 10                                  |         | RCS7-096 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS7-097 |
| - Logical channel identity                 | 2                                   |         | RCS7-098 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS7-099 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-100 |
| - Uplink transport channel type            | RACH                                |         | RCS7-101 |
| - UL Transport channel identity            | Not Present                         |         | RCS7-102 |
| - Logical channel identity                 | 2                                   |         | RCS7-103 |
| - CHOICE RLC size list                     | Explicit List                       |         | RCS7-104 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS7-105 |
| - MAC logical channel priority             | 2                                   |         | RCS7-106 |
| - Downlink RLC logical channel info        |                                     |         | RCS7-107 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-108 |
| - Downlink transport channel type          | FACH                                |         | RCS7-109 |
| - DL DCH Transport channel identity        | Not Present                         |         | RCS7-110 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS7-111 |
| - Logical channel identity                 | 2                                   |         | RCS7-112 |
| - Signalling RB information to setup       | (AM DCCH for NAS_DT High priority)  |         | RCS7-113 |
| - RB identity                              | Not Present                         |         | RCS7-114 |
| - CHOICE RLC info type                     |                                     |         | RCS7-115 |
| - RLC info                                 |                                     |         | RCS7-116 |
| - CHOICE Uplink RLC mode                   | AM RLC                              |         | RCS7-117 |
| - Transmission RLC discard                 |                                     |         | RCS7-118 |
| - SDU discard mode                         | No Discard                          |         | RCS7-119 |
| - MAX_DAT                                  | 415                                 |         | RCS7-120 |
| - Transmission window size                 | 128                                 |         | RCS7-121 |
| - Timer_RST                                | 500                                 |         | RCS7-122 |
| - Max_RST                                  | 4                                   |         | RCS7-123 |
| - Polling info                             |                                     |         | RCS7-124 |
| - Timer_poll_prohibit                      | 200                                 |         | RCS7-125 |
| - Timer_poll                               | 200                                 |         | RCS7-126 |
| - Poll_PDU                                 | Not Present                         |         | RCS7-127 |
| - Poll_SDU                                 | 1                                   |         | RCS7-128 |
| - Last transmission PDU poll               | TRUE                                |         | RCS7-129 |
| - Last retransmission PDU poll             | TRUE                                |         | RCS7-130 |
| - Poll_Windows                             | 99                                  |         | RCS7-131 |
| - Timer_poll_periodic                      | Not Present                         |         | RCS7-132 |
| - CHOICE Downlink RLC mode                 | AM RLC                              |         | RCS7-133 |
| - In-sequence delivery                     | TRUE                                |         | RCS7-134 |
| - Receiving window size                    | 128                                 |         | RCS7-135 |
| - Downlink RLC status info                 |                                     |         | RCS7-136 |
| - Timer_status_prohibit                    | 200                                 |         | RCS7-137 |
| - Timer_EPC                                | Not Present                         |         | RCS7-138 |
| - Missing PDU indicator                    | TRUE                                |         | RCS7-139 |
| - Timer_STATUS_periodic                    | Not Present                         |         | RCS7-140 |
| - RB mapping info                          |                                     |         | RCS7-141 |
| - Information for each multiplexing option | 2 RBMuxOptions                      |         | RCS7-142 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS7-143 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-144 |
| - Uplink transport channel type            | DCH                                 |         | RCS7-145 |
| -UL Transport channel identity             | 5                                   |         | RCS7-146 |
| - Logical channel identity                 | 3                                   |         | RCS7-147 |
| - CHOICE RLC size list                     | Configured                          |         | RCS7-148 |
| - MAC logical channel priority             | 3                                   |         | RCS7-149 |
| - Downlink RLC logical channel info        |                                     |         | RCS7-150 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-151 |
| - Downlink transport channel type          | DCH                                 |         | RCS7-152 |
| - DL DCH Transport channel identity        | 10                                  |         | RCS7-153 |
| - DL DSCH Transport channel identity       | Not Present                         |         | RCS7-154 |
| - Logical channel identity                 | 3                                   |         | RCS7-155 |
| - RLC logical channel mapping indicator    | Not Present                         |         | RCS7-156 |
| - Number of RLC logical channels           | 1                                   |         | RCS7-157 |
| - Uplink transport channel type            | RACH                                |         | RCS7-158 |
| - UL Transport channel identity            | Not Present                         |         | RCS7-159 |
| - Logical channel identity                 | 3                                   |         | RCS7-160 |
| - CHOICE RLC size list                     | Explicit List                       |         | RCS7-161 |
| - RLC size index                           | Reference to clause 6 Parameter Set |         | RCS7-162 |

| Information Element                                         | Value/remark                        | Version | Index    |
|-------------------------------------------------------------|-------------------------------------|---------|----------|
| - MAC logical channel priority                              | 3                                   |         | RCS7-163 |
| - Downlink RLC logical channel info                         |                                     |         | RCS7-164 |
| - Number of RLC logical channels                            | 1                                   |         | RCS7-165 |
| - Downlink transport channel type                           | FACH                                |         | RCS7-166 |
| - DL DCH Transport channel identity                         | Not Present                         |         | RCS7-167 |
| - DL DSCH Transport channel identity                        | Not Present                         |         | RCS7-168 |
| - Logical channel identity                                  | 3                                   |         | RCS7-169 |
| - Signalling RB information to setup                        | (AM DCCH for NAS_DT Low priority)   |         | RCS7-170 |
| - RB identity                                               | Not Present                         |         | RCS7-171 |
| - CHOICE RLC info type                                      |                                     |         | RCS7-172 |
| - RLC info                                                  |                                     |         | RCS7-173 |
| - CHOICE Uplink RLC mode                                    | AM RLC                              |         | RCS7-174 |
| - Transmission RLC discard                                  |                                     |         | RCS7-175 |
| - SDU discard mode                                          | No Discard                          |         | RCS7-176 |
| - MAX_DAT                                                   | 15                                  |         | RCS7-177 |
| - Transmission window size                                  | 128                                 |         | RCS7-178 |
| - Timer_RST                                                 | 500                                 |         | RCS7-179 |
| - Max_RST                                                   | 4                                   |         | RCS7-180 |
| - Polling info                                              |                                     |         | RCS7-181 |
| - Timer_poll_prohibit                                       | 200                                 |         | RCS7-182 |
| - Timer_poll                                                | 200                                 |         | RCS7-183 |
| - Poll_PDU                                                  | Not Present                         |         | RCS7-184 |
| - Poll_SDU                                                  | 1                                   |         | RCS7-185 |
| - Last transmission PDU poll                                | TRUE                                |         | RCS7-186 |
| - Last retransmission PDU poll                              | TRUE                                |         | RCS7-187 |
| - Poll_Windows                                              | 99                                  |         | RCS7-188 |
| - Timer_poll_periodic                                       | Not Present                         |         | RCS7-189 |
| - CHOICE Downlink RLC mode                                  | AM RLC                              |         | RCS7-190 |
| - In-sequence delivery                                      | TRUE                                |         | RCS7-191 |
| - Receiving window size                                     | 128                                 |         | RCS7-192 |
| - Downlink RLC status info                                  |                                     |         | RCS7-193 |
| - Timer_status_prohibit                                     | 200                                 |         | RCS7-194 |
| - Timer_EPC                                                 | Not Present                         |         | RCS7-195 |
| - Missing PDU indicator                                     | TRUE                                |         | RCS7-196 |
| - Timer_STATUS_periodic                                     | Not Present                         |         | RCS7-197 |
| - RB mapping info                                           |                                     |         | RCS7-198 |
| - Information for each multiplexing option                  | 2 RBmuxOptions                      |         | RCS7-199 |
| - RLC logical channel mapping indicator                     | Not Present                         |         | RCS7-200 |
| - Number of RLC logical channels                            | 1                                   |         | RCS7-201 |
| - Uplink transport channel type                             | DCH                                 |         | RCS7-202 |
| - UL Transport channel identity                             | 5                                   |         | RCS7-203 |
| - Logical channel identity                                  | 4                                   |         | RCS7-204 |
| - CHOICE RLC size list                                      | Configured                          |         | RCS7-205 |
| - MAC logical channel priority                              | 4                                   |         | RCS7-206 |
| - Downlink RLC logical channel info                         |                                     |         | RCS7-207 |
| - Number of RLC logical channels                            | 1                                   |         | RCS7-208 |
| - Downlink transport channel type                           | DCH                                 |         | RCS7-209 |
| - DL DCH Transport channel identity                         | 10                                  |         | RCS7-210 |
| - DL DSCH Transport channel identity                        | Not Present                         |         | RCS7-211 |
| - Logical channel identity                                  | 4                                   |         | RCS7-212 |
| - RLC logical channel mapping indicator                     | Not Present                         |         | RCS7-213 |
| - Number of RLC logical channels                            | 1                                   |         | RCS7-214 |
| - Uplink transport channel type                             | RACH                                |         | RCS7-215 |
| - UL Transport channel identity                             | Not Present                         |         | RCS7-216 |
| - Logical channel identity                                  | 4                                   |         | RCS7-217 |
| - CHOICE RLC size list                                      | Explicit List                       |         | RCS7-218 |
| - RLC size index                                            | Reference to clause 6 Parameter Set |         | RCS7-219 |
| - MAC logical channel priority                              | 4                                   |         | RCS7-220 |
| - Downlink RLC logical channel info                         |                                     |         | RCS7-221 |
| - Number of RLC logical channels                            | 1                                   |         | RCS7-222 |
| - Downlink transport channel type                           | FACH                                |         | RCS7-223 |
| - DL DCH Transport channel identity                         | Not Present                         |         | RCS7-224 |
| - DL DSCH Transport channel identity                        | Not Present                         |         | RCS7-225 |
| - Logical channel identity                                  | 4                                   |         | RCS7-226 |
| UL Transport channel information for all transport channels |                                     |         | RCS7-227 |
| - PRACH TFCS                                                | Not Present                         |         | RCS7-228 |

| Information Element                                               | Value/remark                                                                                                         | Version | Index    |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------|----------|
| - CHOICE Mode                                                     | TDD                                                                                                                  |         | RCS7-229 |
| - Individual UL CCTrCH information                                |                                                                                                                      |         | RCS7-230 |
| - UL TFCS ID                                                      | (This IE is repeated for TFC number.)                                                                                |         | RCS7-231 |
| - UL TFCS                                                         |                                                                                                                      |         | RCS7-232 |
| - TFC subset                                                      | Default value is the complete existing set of transport format combinations                                          |         | RCS7-233 |
| - Allowed Transport Format combination                            | 0 to MaxTFCvalue-1 (MaxTFCValue is refer to clause 6 Parameter Set.)                                                 |         | RCS7-234 |
| - PRACH TFCS                                                      | (This IE is repeated for TFC number.)                                                                                |         | RCS7-235 |
| - CHOICE TFCI signalling                                          | Normal                                                                                                               |         | RCS7-236 |
| - TFCI Field 1 information                                        |                                                                                                                      |         | RCS7-237 |
| - TFCS complete reconfigure                                       |                                                                                                                      |         | RCS7-238 |
| information                                                       |                                                                                                                      |         |          |
| - CHOICE TFCS Size                                                | Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to clause 6 Parameter Set |         | RCS7-239 |
| - CTFC information                                                | Not Present                                                                                                          |         | RCS7-240 |
| - CHOICE mode                                                     | TDD                                                                                                                  |         | RCS7-241 |
| - Individual UL CCTrCH information                                | Not Present                                                                                                          |         | RCS7-242 |
| Deleted TrCH information list                                     | Not Present                                                                                                          |         | RCS7-243 |
| Added or Reconfigured UL TrCH information list                    | 1                                                                                                                    |         | RCS7-244 |
| - Added or Reconfigured UL TrCH information                       |                                                                                                                      |         | RCS7-245 |
| - Uplink transport channel type                                   | DCH                                                                                                                  |         | RCS7-246 |
| - UL Transport channel identity                                   | 5                                                                                                                    |         | RCS7-247 |
| - TFS                                                             |                                                                                                                      |         | RCS7-248 |
| - CHOICE Transport channel type                                   | Dedicated transport channels                                                                                         |         | RCS7-249 |
| - Dynamic Transport Format Information                            |                                                                                                                      |         | RCS7-250 |
| - RLC size                                                        | According to clause 6                                                                                                |         | RCS7-251 |
| - Number of TBs and TTI List                                      | (This IE is repeated for TFI number)                                                                                 |         | RCS7-252 |
| - CHOICE mode                                                     | TDD                                                                                                                  |         | RCS7-253 |
| - Transmission Time Interval                                      | According to clause 6                                                                                                |         | RCS7-254 |
| - CHOICE Logical channel list                                     | All                                                                                                                  |         | RCS7-255 |
| - Semi-static Transport Format information                        |                                                                                                                      |         | RCS7-256 |
| DL Transport channel information common for all transport channel |                                                                                                                      |         | RCS7-257 |
| - SCCPCH TFCS                                                     | Not Present                                                                                                          |         | RCS7-258 |
| - CHOICE mode                                                     | TDD                                                                                                                  |         | RCS7-259 |
| - CHOICE DL parameters                                            | Same as UL                                                                                                           |         | RCS7-260 |
| Added or Reconfigured DL TrCH information list                    | 1                                                                                                                    |         | RCS7-261 |
| - Added or Reconfigured DL TrCH information                       |                                                                                                                      |         | RCS7-262 |
| - Downlink transport channel type                                 | DCH                                                                                                                  |         | RCS7-263 |
| - DL Transport channel identity                                   | 10                                                                                                                   |         | RCS7-264 |
| - CHOICE DL parameters                                            | Same as UL                                                                                                           |         | RCS7-265 |
| - Uplink transport channel type                                   | DCH                                                                                                                  |         | RCS7-266 |
| - UL TrCH Identity                                                | 5                                                                                                                    |         | RCS7-267 |
| - DCH quality target                                              |                                                                                                                      |         | RCS7-268 |
| - BLER Quality value                                              | Reference to the present document                                                                                    |         | RCS7-269 |
| Frequency info                                                    | Not Present                                                                                                          |         | RCS7-270 |
| DTX-DRX timing information                                        | Not Present                                                                                                          | Rel-7   | RCS7-271 |
| DTX-DRX information                                               | Not Present                                                                                                          | Rel-7   | RCS7-272 |
| HS-SCCH less information                                          | Not Present                                                                                                          | Rel-7   | RCS7-273 |
| MIMO parameters                                                   | Not Present                                                                                                          | Rel-7   | RCS7-274 |
| Maximum allowed UL TX power                                       | Not Present                                                                                                          |         | RCS7-275 |
| Uplink DPCH info                                                  |                                                                                                                      | Rel-6   | RCS7-276 |
| - Uplink DPCH power control info                                  |                                                                                                                      |         | RCS7-277 |
| - CHOICE mode                                                     | TDD                                                                                                                  |         | RCS7-278 |
| - CHOICE <i>TDD option</i>                                        | 7.68 Mcps                                                                                                            | Rel-7   | RCS7-279 |
| - UL target SIR                                                   | Reference to clause 6 Parameter set                                                                                  |         | RCS7-280 |
| - CHOICE mode                                                     | TDD                                                                                                                  |         | RCS7-281 |
| - CHOICE <i>UL OL PC info</i>                                     | Individually signalled                                                                                               |         | RCS7-282 |
| - CHOICE <i>TDD option</i>                                        | 7.68 Mcps                                                                                                            | Rel-7   | RCS7-283 |
| - Individual timeslot interference info                           | Not Present                                                                                                          |         | RCS7-284 |
| - Individual timeslot interference                                |                                                                                                                      |         | RCS7-285 |
| - DPCH Constant Value                                             |                                                                                                                      |         | RCS7-286 |
| - Primary CCPCH Tx Power                                          | Not Present                                                                                                          |         | RCS7-287 |
| - Time info                                                       |                                                                                                                      |         | RCS7-288 |
| - Activation time                                                 | (256+CFN-(CFN MOD 8 + 8))MOD 256                                                                                     |         | RCS7-289 |



| Information Element                             | Value/remark                                                                                                      | Version            | Index    |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| - Duration                                      | Infinite                                                                                                          |                    | RCS7-290 |
| - Common timeslot info                          |                                                                                                                   |                    | RCS7-291 |
| - 2 <sup>nd</sup> interleaving mode             | Reference to clause 6.11 Parameter Set                                                                            |                    | RCS7-292 |
| - TFCI coding                                   | Reference to clause 6.11 Parameter Set                                                                            |                    | RCS7-293 |
| - Puncturing Limit                              | Reference to clause 6.11 Parameter Set                                                                            |                    | RCS7-294 |
| - Repetition Period                             | Reference to clause 6.11 Parameter Set                                                                            |                    | RCS7-295 |
| - Repetition Length                             | Reference to clause 6.11 Parameter Set                                                                            |                    | RCS7-296 |
| - CHOICE TDD Option                             | 7.68 Mcps                                                                                                         | Rel-7              | RCS7-297 |
| - Uplink DPCH timeslots and codes               | Default is to use the old timeslots and codes                                                                     | Rel-7              | RCS7-298 |
| VHCR                                            |                                                                                                                   |                    |          |
| - CPCH SET Info                                 | (no data)                                                                                                         | R99 and Rel-4 only | RCS7-299 |
| Downlink information common for all radio links |                                                                                                                   |                    | RCS7-300 |
| - Downlink DPCH info common for all RL          |                                                                                                                   |                    | RCS7-301 |
| - Timing Indication                             | Initialize                                                                                                        |                    | RCS7-302 |
| - CFN-targetSFN frame offset                    | Not Present                                                                                                       |                    | RCS7-303 |
| - Downlink DPCH power control information       |                                                                                                                   |                    | RCS7-304 |
| - DPC mode                                      | 0 (single)                                                                                                        |                    | RCS7-305 |
| - CHOICE mode                                   | TDD                                                                                                               |                    | RCS7-306 |
| - CHOICE TDD option                             | 7.68 Mcps (no data)                                                                                               | Rel-7              | RCS7-307 |
| - Default DPCH Offset Value                     | Not Present                                                                                                       |                    | RCS7-308 |
| Downlink information for per radio links list   |                                                                                                                   |                    | RCS7-309 |
| -Downlink information for each radio links      |                                                                                                                   |                    | RCS7-310 |
| - CHOICE mode                                   | TDD                                                                                                               |                    | RCS7-311 |
| - Primary CCPCH info                            |                                                                                                                   |                    | RCS7-312 |
| - CHOICE mode                                   | TDD                                                                                                               |                    | RCS7-313 |
| - CHOICE TDD option                             | 7.68 Mcps                                                                                                         | Rel-7              | RCS7-314 |
| - CHOICE <i>SyncCase</i>                        | Sync Case 1                                                                                                       |                    | RCS7-315 |
| - Timeslot                                      | PCCPCH timeslot                                                                                                   |                    | RCS7-316 |
| - Cell parameters ID                            | 0                                                                                                                 |                    | RCS7-317 |
| - SCTD indicator                                |                                                                                                                   |                    | RCS7-318 |
| - CHOICE DPCH info                              | Downlink DPCH info for each RL                                                                                    | Rel-6              | RCS7-319 |
| - Downlink DPCH info for each RL                |                                                                                                                   |                    | RCS7-320 |
| - CHOICE mode                                   | TDD                                                                                                               |                    | RCS7-321 |
| - DL CCTrCH List                                |                                                                                                                   |                    | RCS7-322 |
| - TFCS ID                                       | 1                                                                                                                 |                    | RCS7-323 |
| - Time info                                     |                                                                                                                   |                    | RCS7-324 |
| - Activation time                               | (256+CFN-(CFN mod 8 + 8))mod 256                                                                                  |                    | RCS7-325 |
| - Duration                                      | infinite                                                                                                          |                    | RCS7-326 |
| - Common timeslot info                          |                                                                                                                   |                    | RCS7-327 |
| - 2 <sup>nd</sup> interleaving mode             | Reference to the present document                                                                                 |                    | RCS7-328 |
| - TFCI coding                                   | TRUE                                                                                                              |                    | RCS7-329 |
| - Puncturing limit                              | Reference to clause 6 Parameter set                                                                               |                    | RCS7-330 |
| - Repetition period                             | 1                                                                                                                 |                    | RCS7-331 |
| - Repetition length                             | Empty                                                                                                             |                    | RCS7-332 |
| - Downlink DPCH timeslots and codes             |                                                                                                                   | Rel-7              | RCS7-333 |
| VHCR                                            |                                                                                                                   |                    |          |
| - CHOICE <i>more timeslots</i>                  |                                                                                                                   |                    | RCS7-334 |
| - CHOICE TDD option                             | 7.68 Mcps                                                                                                         | Rel-7              | RCS7-335 |
| - Timeslot number                               | The number of a downlink timeslot that has unassigned codes in a frame.                                           |                    | RCS7-336 |
| - Individual timeslot info                      |                                                                                                                   |                    | RCS7-337 |
| - TFCI existence                                | TRUE                                                                                                              |                    | RCS7-338 |
| - Midamble shift and burst type                 |                                                                                                                   |                    | RCS7-339 |
| - CHOICE TDD option                             | 7.68 Mcps                                                                                                         |                    | RCS7-340 |
| -CHOICE Burst Type                              |                                                                                                                   |                    | RCS7-341 |
| -Type 1                                         |                                                                                                                   |                    | RCS7-342 |
| -Midamble Allocation Mode                       | Default                                                                                                           |                    | RCS7-343 |
| - Midamble configuration burst                  | As defined in 3GPP TS 25.221 [28]                                                                                 |                    | RCS7-344 |
| type 1 and 3                                    |                                                                                                                   |                    |          |
| - First timeslot channelisation codes           |                                                                                                                   |                    | RCS7-345 |
| - First channelisation code                     | (i/SF) where i is the lowest numbered code that is being assigned and SF is specified in clause 6 Parameter Set.. |                    | RCS7-346 |
| - Last channelisation code                      | (j/SF) where j is the highest numbered code that is being assigned in the slot.                                   |                    | RCS7-347 |
| - CHOICE more timeslots                         | The presence of this IE depends upon                                                                              |                    | RCS7-348 |

| Information Element                                   | Value/remark                                                                                                                                                    | Version               | Index                |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------|
| - UL CCTrCH TPC List<br>- SCCPCH information for FACH | whether the requirements of clause 6<br>Parameter Set could be met by the codes that<br>have been assigned in the first timeslot.<br>Not Present<br>Not Present | R99 and<br>Rel-4 only | RCS7-349<br>RCS7-350 |

## Contents of SECURITY MODE COMMAND message: AM

| Information Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Condition | Value/remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Message Type</p> <p>RRC transaction identifier</p> <p>Integrity check info</p> <ul style="list-style-type: none"> <li>- Message authentication code</li> <li>- RRC Message Sequence Number</li> </ul> <p>Security capability</p> <ul style="list-style-type: none"> <li>- Ciphering algorithm capability</li> <li>- UEA0</li> <li>- UEA1</li> <li>- Spare</li> <li>- Integrity protection algorithm capability</li> <li>- UIA1</li> <li>- Spare</li> </ul> <p>Ciphering mode info</p> <ul style="list-style-type: none"> <li>- Ciphering mode command</li> <li>- Ciphering algorithm</li> </ul>        | A1, A2    | <p>Arbitrarily selects an integer between 0 and 3</p> <p>Set to an arbitrarily selected 32-bits integer. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.</p> <p>Set to an arbitrarily selected integer between 0 and 15</p> <p>If the UE has indicated support for ciphering algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.</p> <p>If the UE has indicated support for ciphering algorithm UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.</p> <p>Spare 2-15 = FALSE</p> <p>0000000000000010B (UIA1)</p> <p>TRUE</p> <p>Spare 0 and Spare 2-15 = FALSE</p> <p>This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.</p> <p>Start/restart</p> |
| <p>info</p> <ul style="list-style-type: none"> <li>- Radio bearer activation time</li> <li>- RB identity</li> <li>- RLC sequence number</li> <li>- RB identity</li> <li>- RLC sequence number</li> <li>- RB identity</li> <li>- RLC sequence number</li> <li>- RB identity</li> <li>- RLC sequence number</li> </ul> <p>Integrity protection mode info</p> <ul style="list-style-type: none"> <li>- Integrity protection mode command</li> <li>- Downlink integrity protection activation info</li> <li>- Integrity protection algorithm</li> <li>- Integrity protection initialisation number</li> </ul> |           | <p>UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. Use the same ciphering algorithm specified in "ciphering"</p> <p>Not Present</p> <p>1<br/>Current RLC SN</p> <p>2<br/>Current RLC SN+3(or Calculated Value)</p> <p>3<br/>Current RLC SN</p> <p>4<br/>Current RLC SN</p> <p>Start</p> <p>Not Present</p> <p>UIA1</p> <p>SS selects an arbitrary 32 bits number</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Information Element                                                                                                                                                                          | Condition | Value/remark                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CN domain identity<br>UE system specific security capability<br>UE system specific security capability<br>- Inter-RAT UE security capability<br>- CHOICE system<br>- GSM security capability | A1<br>A2  | for FRESH<br>CS or PS<br>Not Checked<br><br>GSM<br>The indicated algorithms must be the same as the algorithms supported by the UE as indicated in the IE " UE system specific capability " in the RRC CONNECTION SETUP COMPLETE message. |

| Condition | Explanation           |
|-----------|-----------------------|
| A1        | UE not supporting GSM |
| A2        | UE supporting GSM     |

## 10 Void

## 11 MBMS configurations for signalling test

Clause 11.1 specifies MCCH configurations for MBMS and MBSFN FDD mode. Clause 11.2 specifies MCCH configurations for MBSFN for 3.84 Mcps and 7.68 Mcps TDD

### 11.1 MCCH configurations

#### 11.1.1 MCCH configuration parameters

MCCH is configured stand-alone on a separate SCCPCH for test. Four typical MCCH scheduling configurations are included in the clause. The MCCH RAB is found in 6.10.2.4.3.8.

##### 11.1.1.1 Default1 MCCH information scheduling (mp 5.12s)

| MCCH configuration parameters                   | Values     | Comments    |
|-------------------------------------------------|------------|-------------|
| Modification period (mp)                        | 512 frames | 5.12 s      |
| Repetition period (rp)                          | 128 frames | 1.28 s      |
| Access information period (aip)                 | 64 frames  | 0.64 s      |
| MCCH configuration (number of mp-rp-aip)        | 1-4-8      |             |
| MCCH data rate                                  | 7.6 kbs    |             |
| Max. total lengths of MCCH PER-encoded messages | 1 k octets | 1216 octets |
| Max. MBMS neighbouring cells                    | 15         |             |
| Max. MBMS services                              | 12         |             |

##### 11.1.1.2 Default2 MCCH information scheduling (mp 2.56s)

| MCCH configuration parameters                   | Values     | Comments    |
|-------------------------------------------------|------------|-------------|
| Modification period (mp)                        | 256 frames | 2.56 s      |
| Repetition period (rp)                          | 128 frames | 1.28 s      |
| Access information period (aip)                 | 64 frames  | 0.64 s      |
| MCCH configuration (number of mp-rp-aip)        | 1-2-4      |             |
| MCCH data rate                                  | 7.6 kbs    |             |
| Max. total lengths of MCCH PER-encoded messages | 1 k octets | 1216 octets |
| Max. MBMS neighbouring cells                    | 8          |             |
| Max. MBMS services                              | 12         |             |

##### 11.1.1.3 Longest MCCH information scheduling (mp 10.24s)

| MCCH configuration parameters                   | Values      | Comments    |
|-------------------------------------------------|-------------|-------------|
| Modification period (mp)                        | 1024 frames | 10.24 s     |
| Repetition period (rp)                          | 256 frames  | 2.56 s      |
| Access information period (aip)                 | 128 frames  | 1.28 s      |
| MCCH configuration (number of mp-rp-aip)        | 1-4-8       |             |
| MCCH data rate                                  | 7.6 kbs     |             |
| Max. total lengths of MCCH PER-encoded messages | 2 k octets  | 2432 octets |
| Max. MBMS neighbouring cells                    | 15          |             |
| Max. MBMS services                              | 16          |             |

#### 11.1.1.4 Shortest MCCH information scheduling (mp 1.28s)

| MCCH configuration parameters                   | Values       | Comments   |
|-------------------------------------------------|--------------|------------|
| Modification period (mp)                        | 128 frames   | 1.28 s     |
| Repetition period (rp)                          | 64 frames    | 0.64 s     |
| Access information period (aip)                 | 16 frames    | 0.16 s     |
| MCCH configuration (number of mp-rp-aip)        | 1-2-8        |            |
| MCCH data rate                                  | 7.6 kbs      |            |
| Max. total lengths of MCCH PER-encoded messages | 0.5 k octets | 608 octets |
| Max. MBMS neighbouring cells                    | 8            |            |
| Max. MBMS services                              | 12           |            |

### 11.1.2 MCCH messages transmission in test

The clause provides rules for MCCH messages transmission for MBMS test.

A whole set of MCCH messages is repeatedly transmitted.

The sending of the whole set of critical MCCH information messages is started at the first TTI of a repetition period if no ACCESS INFORMATION message is sent.

No ACCESS INFORMATION messages shall be transmitted in the modification period unless explicitly mentioned in the Test Procedure or Expected Sequence.

In case an ACCESS INFORMATION message transmission is explicitly mentioned in the test procedure or expected sequence these shall be transmitted starting at the first frame of the second access information period of the modification period, after MBMS MODIFIED SERVICES INFORMATION, unless stated otherwise. If the test case procedure describes more than one ACCESS INFORMATION message in the same modification period, this means that an ACCESS INFORMATION message is transmitted in every access info period from the first message until the end of the modification period, unless stated otherwise.

If an ACCESS INFORMATION message is to be sent in the access information period in a repetition period the critical MCCH messages are transmitted in the next frame after the ACCESS INFORMATION message.

If an ACCESS INFORMATION message is to be sent in the access information period that is not the first access information period in a repetition period,

And if a critical MCCH message is segmented into several RLC PDUs with consecutive sequence numbers and is occasionally, only partially transmitted at the end of the preceding access information period, the remaining RLC PDUs shall be transmitted after ACCESS INFORMATION (as out of sequence delivery) in the next access information period within the repetition period.

If an MBMS service is changed, this will be notified on MICH during one entire modification period before the change occurs. The service should then appear in MBMS MODIFIED SERVICES INFORMATION for one modification period, and then in the next modification period move to MBMS UNMODIFIED SERVICES INFORMATION. The MBMS MODIFIED SERVICES INFORMATION message should be transmitted once per repetition period throughout the modification period. All MCCH messages will contain the same content during and after this service change, except for MBMS MODIFIED SERVICES INFORMATION and MBMS UNMODIFIED SERVICES INFORMATION, unless stated otherwise in the test procedure.

### 11.1.3 Combinations and transmission order of critical MCCH messages

| Combination Id | Ordered message combinations                                                                                                                                                                                                                                                                                                                                                                           | comment                                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| C1             | MBMS MODIFIED SERVICES INFORMATION (empty services_list)<br>+ MBMS UNMODIFIED SERVICES INFORMATION<br>+ MBMS GENERAL INFORMATION                                                                                                                                                                                                                                                                       | No session ongoing or PTP session ongoing.                                                                                     |
| C2             | MBMS MODIFIED SERVICES INFORMATION (empty services_list)<br>+ MBMS UNMODIFIED SERVICES INFORMATION<br>+ MBMS GENERAL INFORMATION<br>+ MBMS COMMON RB INFORMATION<br>+ MBMS CURRENT CELL p-t-m RB INFORMATION                                                                                                                                                                                           | PTM sessions are ongoing, no service modification and no neighbouring cells are defined                                        |
| C3             | MBMS MODIFIED SERVICES INFORMATION (empty services_list)<br>+ MBMS UNMODIFIED SERVICES INFORMATION<br>+ MBMS GENERAL INFORMATION<br>+ MBMS COMMON RB INFORMATION<br>+ MBMS CURRENT CELL p-t-m RB INFORMATION<br>+ MBMS NEIGHBOURING CELL p-t-m RB INFORMATION (per neighbouring cell)                                                                                                                  | PTM sessions are ongoing, no service modification                                                                              |
| C4             | MBMS MODIFIED SERVICES INFORMATION<br>+ MBMS GENERAL INFORMATION<br>+ MBMS COMMON RB INFORMATION<br>+ MBMS CURRENT CELL p-t-m RB INFORMATION<br>+ MBMS UNMODIFIED SERVICES INFORMATION                                                                                                                                                                                                                 | PTM sessions are ongoing or starting, service modification indicated, no neighbouring cells (for one modification period)      |
| C5             | MBMS MODIFIED SERVICES INFORMATION<br>+ MBMS GENERAL INFORMATION<br>+ MBMS COMMON RB INFORMATION<br>+ MBMS CURRENT CELL p-t-m RB INFORMATION<br>+ MBMS NEIGHBOURING CELL p-t-m RB INFORMATION (per neighbouring cell related to modified services)<br>+ MBMS UNMODIFIED SERVICES INFORMATION<br>+ MBMS NEIGHBOURING CELL p-t-m RB INFORMATION (per neighbouring cell not related to modified services) | PTM sessions are ongoing or starting, service modification indicated (for one modification period)                             |
| C6             | MBMS MODIFIED SERVICES INFORMATION (empty services_list)<br>+ MBMS UNMODIFIED SERVICES INFORMATION (empty services_list)<br>+ MBMS GENERAL INFORMATION                                                                                                                                                                                                                                                 | No MBMS services                                                                                                               |
| C7             | MBMS MODIFIED SERVICES INFORMATION<br>+ MBMS GENERAL INFORMATION<br>+ MBMS UNMODIFIED SERVICES INFORMATION                                                                                                                                                                                                                                                                                             | PTP sessions are starting or another required UE action. MBMS UNMODIFIED SERVICES INFORMATION may or may not contain services. |

NOTE 1: PTM test cases shall use message combinations C2 and C4 by default, according to the rules in clause 11.1.2, unless stated otherwise. If MBMS neighbouring cells are configured in the PTM test case then combinations C3 and C5 shall be used unless stated otherwise. PTP and counting test cases shall use message combinations C6 and C7, unless stated otherwise.

NOTE 2: If combination C6 is used in the initial condition, then the list of services in MBMS UNMODIFIED SERVICES INFORMATION will be empty. Then if any service is modified this will be added to the list, so the list of services will grow during the test (e.g. C6->C4->C2 or C6->C5->C3 or C6->C7->C6). If combination C1 is used in the initial condition then a total of 12 services will always be included in MBMS UNMODIFIED SERVICES INFORMATION and MBMS MODIFIED SERVICES INFORMATION (e.g. C1->C4->C2 or C1->C5->C3 or C1->C7->C6).

## 11.2 MCCH configurations for MBSFN (TDD)

### 11.2.1 MCCH configuration parameters

#### 11.2.1.1 Non-IMB

MCCH is configured stand-alone on a separate SCCPCH for testing MBSFN. Four typical MCCH scheduling configurations are included in this clause. The MCCH RB is found in clause 6.10.3.4.4.12 (3.84 Mcps TDD) or 6.11.5.4.4.12 (1.28 Mcps TDD) or 6.11.6.4.4.12 (7.68 Mcps TDD).

##### 11.2.1.1.1 Default1 MCCH information scheduling (mp 5.12s)

| MCCH configuration parameters                   | Values     | Comments                                   |
|-------------------------------------------------|------------|--------------------------------------------|
| Modification period (mp)                        | 512 frames | 5.12s. Modification period coefficient = 9 |
| Repetition period (rp)                          | 128 frames | 1.28s. Repetition period coefficient = 2   |
| MCCH configuration (number of mp-rp)            | 1-4        |                                            |
| MCCH data rate                                  | 7.2 kbs    |                                            |
| Max. total lengths of MCCH PER-encoded messages | 1 k octets | 1152 octets                                |

##### 11.1.1.1.2 Default2 MCCH information scheduling (mp 2.56s)

| MCCH configuration parameters                   | Values     | Comments                                   |
|-------------------------------------------------|------------|--------------------------------------------|
| Modification period (mp)                        | 256 frames | 2.56s. Modification period coefficient = 8 |
| Repetition period (rp)                          | 128 frames | 1.28s. Repetition period coefficient = 1   |
| MCCH configuration (number of mp-rp)            | 1-2        |                                            |
| MCCH data rate                                  | 7.2 kbs    |                                            |
| Max. total lengths of MCCH PER-encoded messages | 1 k octets | 1152 octets                                |

##### 11.1.1.1.3 Longest MCCH information scheduling (mp 10.24s)

| MCCH configuration parameters                   | Values      | Comments                                     |
|-------------------------------------------------|-------------|----------------------------------------------|
| Modification period (mp)                        | 1024 frames | 10.24s. Modification period coefficient = 10 |
| Repetition period (rp)                          | 256 frames  | 2.56s. Repetition period coefficient = 2     |
| MCCH configuration (number of mp-rp)            | 1-4         |                                              |
| MCCH data rate                                  | 7.2 kbs     |                                              |
| Max. total lengths of MCCH PER-encoded messages | 2 k octets  | 2304 octets                                  |

##### 11.1.1.1.4 Shortest MCCH information scheduling (mp 1.28s)

| MCCH configuration parameters                   | Values       | Comments                                    |
|-------------------------------------------------|--------------|---------------------------------------------|
| Modification period (mp)                        | 128 frames   | 1.28 s. Modification period coefficient = 7 |
| Repetition period (rp)                          | 64 frames    | 0.64 s. Repetition period coefficient = 1   |
| MCCH configuration (number of mp-rp)            | 1-2          |                                             |
| MCCH data rate                                  | 7.2 kbs      |                                             |
| Max. total lengths of MCCH PER-encoded messages | 0.5 k octets | 576 octets                                  |

#### 11.2.1.2 IMB

MCCH is configured stand-alone on a separate SCCPCH for testing MBSFN. Four typical MCCH scheduling configurations are included in this clause. The MCCH RB is found in clause 6.11.7.4.1.1.

## 11.2.1.2.1 Default1 MCCH information scheduling (mp 5.12s)

| MCCH configuration parameters                   | Values     | Comments                                   |
|-------------------------------------------------|------------|--------------------------------------------|
| Modification period (mp)                        | 512 frames | 5.12s. Modification period coefficient = 9 |
| Repetition period (rp)                          | 128 frames | 1.28s. Repetition period coefficient = 2   |
| MCCH configuration (number of mp-rp)            | 1-4        |                                            |
| MCCH data rate                                  | 7.6 kbs    |                                            |
| Max. total lengths of MCCH PER-encoded messages | 1 k octets | 1216 octets                                |

## 11.1.1.2.2 Default2 MCCH information scheduling (mp 2.56s)

| MCCH configuration parameters                   | Values     | Comments                                   |
|-------------------------------------------------|------------|--------------------------------------------|
| Modification period (mp)                        | 256 frames | 2.56s. Modification period coefficient = 8 |
| Repetition period (rp)                          | 128 frames | 1.28s. Repetition period coefficient = 1   |
| MCCH configuration (number of mp-rp)            | 1-2        |                                            |
| MCCH data rate                                  | 7.6 kbs    |                                            |
| Max. total lengths of MCCH PER-encoded messages | 1 k octets | 1216 octets                                |

## 11.1.1.2.3 Longest MCCH information scheduling (mp 10.24s)

| MCCH configuration parameters                   | Values      | Comments                                     |
|-------------------------------------------------|-------------|----------------------------------------------|
| Modification period (mp)                        | 1024 frames | 10.24s. Modification period coefficient = 10 |
| Repetition period (rp)                          | 256 frames  | 2.56s. Repetition period coefficient = 2     |
| MCCH configuration (number of mp-rp)            | 1-4         |                                              |
| MCCH data rate                                  | 7.6 kbs     |                                              |
| Max. total lengths of MCCH PER-encoded messages | 2 k octets  | 2432 octets                                  |

## 11.1.1.2.4 Shortest MCCH information scheduling (mp 1.28s)

| MCCH configuration parameters                   | Values       | Comments                                    |
|-------------------------------------------------|--------------|---------------------------------------------|
| Modification period (mp)                        | 128 frames   | 1.28 s. Modification period coefficient = 7 |
| Repetition period (rp)                          | 64 frames    | 0.64 s. Repetition period coefficient = 1   |
| MCCH configuration (number of mp-rp)            | 1-2          |                                             |
| MCCH data rate                                  | 7.6 kbs      |                                             |
| Max. total lengths of MCCH PER-encoded messages | 0.5 k octets | 608 octets                                  |

## 11.2.2 MCCH messages transmission in test

This clause provides rules for MCCH message transmission for MBMS testing on MBSFN clusters.

A whole set of MCCH messages is repeatedly transmitted.

The sending of the whole set of critical MCCH information messages is started at the first TTI of a repetition period.

If an MBMS service is changed, this will be notified on MICH during one entire modification period before the change occurs. The service should then appear in MBMS MODIFIED SERVICES INFORMATION for one modification period, and then in the next modification period move to MBMS UNMODIFIED SERVICES INFORMATION. The MBMS MODIFIED SERVICES INFORMATION message should be transmitted once per repetition period throughout the modification period. All MCCH messages will contain the same content during and after this service change, except for MBMS MODIFIED SERVICES INFORMATION and MBMS UNMODIFIED SERVICES INFORMATION, unless stated otherwise in the test procedure.



### 11.2.3 Combinations and transmission order of critical MCCH messages

| Combination Id | Ordered message combinations                                                                                                                                                                                       | comment                                                                                            |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| C1             | MBMS MODIFIED SERVICES INFORMATION (empty services_list)<br>+ MBMS UNMODIFIED SERVICES INFORMATION<br>+ MBMS GENERAL INFORMATION                                                                                   | No session ongoing.                                                                                |
| C2             | MBMS MODIFIED SERVICES INFORMATION (empty services_list)<br>+ MBMS UNMODIFIED SERVICES INFORMATION<br>+ MBMS GENERAL INFORMATION<br>+ MBMS COMMON P-T-M RB INFORMATION<br>+ MBMS CURRENT CELL P-T-M RB INFORMATION | PTM sessions are ongoing, no service modification                                                  |
| C3             | Reserved                                                                                                                                                                                                           |                                                                                                    |
| C4             | MBMS MODIFIED SERVICES INFORMATION<br>+ MBMS GENERAL INFORMATION<br>+ MBMS COMMON RB INFORMATION<br>+ MBMS CURRENT CELL P-T-M RB INFORMATION<br>+ MBMS UNMODIFIED SERVICES INFORMATION                             | PTM sessions are ongoing or starting, service modification indicated (for one modification period) |
| C5             | Reserved                                                                                                                                                                                                           |                                                                                                    |
| C6             | MBMS MODIFIED SERVICES INFORMATION (empty services_list)<br>+ MBMS UNMODIFIED SERVICES INFORMATION (empty services_list)<br>+ MBMS GENERAL INFORMATION                                                             | No MBMS services                                                                                   |
| C7             | Reserved                                                                                                                                                                                                           |                                                                                                    |

NOTE 1: MBSFN test cases shall use message combinations C2 and C4 by default, according to the rules in clause 11.2.2, unless stated otherwise.

NOTE 2: If combination C6 is used in the initial condition, then the list of services in MBMS UNMODIFIED SERVICES INFORMATION will be empty. Then if any service is modified this will be added to the list, so the list of services will grow during the test (e.g. C6->C4->C2). If combination C1 is used in the initial condition then a total of 8 services will always be included in MBMS UNMODIFIED SERVICES INFORMATION and MBMS MODIFIED SERVICES INFORMATION (e.g. C1->C4->C2).

### 11.2.4 MBSFN service availability

#### 11.2.4.1 Non-IMB

By default a total of 14 MBMS services are defined. However, in each cell only a selection of these services are available.

The default cell environment comprising Cell 31 to Cell 38 is configured to simulate four geographical service areas. In each service area there is one cell (cluster) on carrier frequency f1 (referred to as the Dedicated National Carrier) providing only nationally available services and another cell (cluster) on carrier frequency f2 (referred to as the Mixed Local/National Carrier) providing a mix of national and local services. By default all cells will provide notification of all services available in that service area. The default allocation of cells to carrier frequencies is defined by a combination of clause 6.1 and clause 5.1.2.

Cell 31, Cell 32, Cell 37 and Cell 38 will by default provide Dedicated National Carrier services. Cell 33, Cell 34, Cell 35 and Cell 36 will by default provide Mixed Local/National Carrier services. The default service availability in each cell is given in Table 11.2.4-1.

**Table 11.2.4-1: Default Service Availability in Cell 31 - Cell 38**

| MBMS Service ID | Cell 31 | Cell 32 | Cell 33 | Cell 34 | Cell 35 | Cell 36 | Cell 37 | Cell 38 | Comments                       |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|--------------------------------|
| 000001          | X       | X       |         |         |         |         | X       | X       | National service 1             |
| 000002          | X       | X       |         |         |         |         | X       | X       | National service 2             |
| 000003          | X       | X       |         |         |         |         | X       | X       | National service 3             |
| 000004          | X       | X       |         |         |         |         | X       | X       | National service 4             |
| 000005          |         |         | X       | X       | X       | X       |         |         | National service 5             |
| 000006          |         |         | X       | X       | X       | X       |         |         | National service 6             |
| 010001          |         |         | X       |         |         |         |         |         | Service Area 1 local service 1 |
| 010002          |         |         | X       |         |         |         |         |         | Service Area 1 local service 2 |
| 020001          |         |         |         | X       |         |         |         |         | Service Area 2 local service 1 |
| 020002          |         |         |         | X       |         |         |         |         | Service Area 2 local service 2 |
| 030001          |         |         |         |         | X       |         |         |         | Service Area 3 local service 1 |
| 030002          |         |         |         |         | X       |         |         |         | Service Area 3 local service 2 |
| 040001          |         |         |         |         |         | X       |         |         | Service Area 4 local service 1 |
| 040002          |         |         |         |         |         | X       |         |         | Service Area 4 local service 2 |

#### 11.2.4.2 IMB

A total of 6 MBMS services are defined. However, in each cell only a selection of these services are available.

The default cell environment comprising Cell 31 to Cell 38 is configured to simulate four geographical service areas. By default all cells will provide notification of all services available in that service area. The default allocation of cells to carrier frequencies is defined by a combination of clause 6.1 and clause 5.1.2.

The default service availability in each cell is given in Table 11.2.4-2.

**Table 11.2.4-2: Default Service Availability in Cell 31 - Cell 38**

| MBMS Service ID | Cell 31 | Cell 32 | Cell 33 | Cell 34 | Cell 35 | Cell 36 | Cell 37 | Cell 38 | Comments           |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|--------------------|
| 000001          | X       | X       |         |         |         |         | X       | X       | National service 1 |
| 000002          | X       | X       |         |         |         |         | X       | X       | National service 2 |
| 000003          | X       | X       |         |         |         |         | X       | X       | National service 3 |
| 000004          | X       | X       |         |         |         |         | X       | X       | National service 4 |
| 000005          |         |         | X       | X       | X       | X       |         |         | National service 5 |
| 000006          |         |         | X       | X       | X       | X       |         |         | National service 6 |

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## Annex A to C (informative): Void

## Annex D (informative): Change history

| Meeting-1st-Level | Doc-1st-Level | CR  | Rev | Subject                                                                               | Cat | Version-Current | Version-New | Doc-2nd-Level |
|-------------------|---------------|-----|-----|---------------------------------------------------------------------------------------|-----|-----------------|-------------|---------------|
| TP-08             |               |     |     | Approval of the specification                                                         |     | 2.0.0           | 3.0.0       |               |
| TP-09             | TP-000131     | 001 |     | RRC Message Contents: RLCSize                                                         | C   | 3.0.1           | 3.1.0       | T1-000190     |
| TP-09             | TP-000131     | 002 |     | RRC Message Contents: RLCParam                                                        | C   | 3.0.1           | 3.1.0       | T1-000191     |
| TP-09             | TP-000131     | 003 |     | RRC Message Contents: PCPreamble                                                      | C   | 3.0.1           | 3.1.0       | T1-000192     |
| TP-09             | TP-000131     | 004 |     | RRC Message Contents: RBIdentity                                                      | C   | 3.0.1           | 3.1.0       | T1-000193     |
| TP-09             | TP-000131     | 005 |     | RRC Message Contents: TrCHParam                                                       | C   | 3.0.1           | 3.1.0       | T1-000194     |
| TP-09             | TP-000131     | 006 |     | RRC Message Contents: UECapability                                                    | C   | 3.0.1           | 3.1.0       | T1-000195     |
| TP-09             | TP-000131     | 007 |     | RRC Message Contents: RBMapping                                                       | C   | 3.0.1           | 3.1.0       | T1-000196     |
| TP-09             | TP-000131     | 008 |     | RRC Message Contents: PagingCause                                                     | C   | 3.0.1           | 3.1.0       | T1-000197     |
| TP-09             | TP-000131     | 009 |     | RRC Message Contents: CipheringAndIntegrity                                           | C   | 3.0.1           | 3.1.0       | T1-000198     |
| TP-09             | TP-000131     | 010 |     | RRC Message Contents: RLCInfo                                                         | C   | 3.0.1           | 3.1.0       | T1-000199     |
| TP-09             | TP-000131     | 011 |     | RRC Message Contents: CompressedMode                                                  | C   | 3.0.1           | 3.1.0       | T1-000200     |
| TP-09             | TP-000131     | 012 |     | RRC Message Contents: SIB                                                             | C   | 3.0.1           | 3.1.0       | T1-000201     |
| TP-09             | TP-000131     | 013 |     | RRC Message Contents: PhyCH                                                           | D   | 3.0.1           | 3.1.0       | T1-000202     |
| TP-09             | TP-000131     | 014 |     | RRC Message Contents: Measurement                                                     | C   | 3.0.1           | 3.1.0       | T1-000203     |
| TP-09             | TP-000131     | 015 |     | RRC Message Contents: TFCS                                                            | C   | 3.0.1           | 3.1.0       | T1-000204     |
| TP-09             | TP-000131     | 016 |     | RRC Message Contents: DPCHFrameOffset                                                 | C   | 3.0.1           | 3.1.0       | T1-000205     |
| TP-09             | TP-000131     | 017 |     | Test USIM Parameters                                                                  | F   | 3.0.1           | 3.1.0       | T1-000215     |
| TP-09             | TP-000131     | 018 |     | Correction to definition of the test algorithm for authentication (clause 8.1.2)      | F   | 3.0.1           | 3.1.0       | T1-000164     |
| TP-09             | TP-000131     | 019 |     | Reference Radio Bearer Configurations                                                 | F   | 3.0.1           | 3.1.0       | T1-000212     |
| TP-09             | TP-000131     | 020 |     | TDD Single mode                                                                       | F   | 3.0.1           | 3.1.0       | T1-000220     |
| TP-10             | TP-000215     | 021 |     | Common generic procedure for AS testing                                               | B   | 3.1.0           | 3.2.0       | T1-000294     |
| TP-10             | TP-000215     | 022 |     | Requirements for the system simulator for support of Tcell parameter                  | F   | 3.1.0           | 3.2.0       | T1-000303     |
| TP-10             | TP-000215     | 023 |     | Minimum Performance Levels                                                            | F   | 3.1.0           | 3.2.0       | T1-000306     |
| TP-10             | TP-000215     | 024 |     | Downlink signal conditions and propagation conditions                                 | D   | 3.1.0           | 3.2.0       | T1-000307     |
| TP-10             | TP-000215     | 025 |     | Updating 34.108 v3.1.0 to TDD single mode                                             | F   | 3.1.0           | 3.2.0       | T1-000281     |
| TP-10             | TP-000215     | 026 |     | Application of integrity mode protection to signalling message by default             | F   | 3.1.0           | 3.2.0       | T1-000296     |
| TP-10             | TP-000215     | 027 |     | Updates to the default message contents in clause 9                                   | C   | 3.1.0           | 3.2.0       | T1-000282     |
| TP-10             | TP-000215     | 028 |     | Updates to System Information Block (SIB) and Master Information Block (MIB) messages | C   | 3.1.0           | 3.2.0       | T1-000283     |
| TP-10             | TP-000215     | 029 |     | Application of ciphering during conformance testing                                   | C   | 3.1.0           | 3.2.0       | T1-000285     |
| TP-10             | TP-000215     | 030 |     | Addition for System Information parameters (34.108 clause 6.1)                        | F   | 3.1.0           | 3.2.0       | T1-000304     |
| TP-10             | TP-000215     | 031 |     | Correction for Generic Setup Procedures (34.108 clause 7.2)                           | F   | 3.1.0           | 3.2.0       | T1-000305     |
| TP-11             | TP-010018     | 032 |     | Default radio conditions for multi-cell environment                                   | F   | 3.2.0           | 3.3.0       | T1-010078     |
| TP-11             | TP-010018     | 033 |     | Correction for Generic Setup Procedures (34.108 clause 7.2)                           | F   | 3.2.0           | 3.3.0       | T1-010079     |
| TP-11             | TP-010018     | 034 |     | Corrections for Test USIM Parameters(34.108 clause 8)                                 | F   | 3.2.0           | 3.3.0       | T1-010080     |
| TP-11             | TP-010018     | 035 |     | Correction of clause number in TS 34.108.                                             | D   | 3.2.0           | 3.3.0       | T1-010081     |
| TP-11             | TP-010018     | 036 |     | Update of authentication test algorithm                                               | C   | 3.2.0           | 3.3.0       | T1-010082     |
| TP-11             | TP-010018     | 037 |     | Updates to clause 9 of TS 34.108 v3.2.0                                               | F   | 3.2.0           | 3.3.0       | T1-010084     |
| TP-11             | TP-010018     | 038 |     | Updating to TDD single mode                                                           | F   | 3.2.0           | 3.3.0       | T1-010088     |
| TP-11             | TP-010018     | 039 |     | Simulated network environments for TDD mode (SIB)                                     | F   | 3.2.0           | 3.3.0       | T1-010089     |
| TP-12             | TP-010118     | 040 |     | Corrections to clause 6.10 FDD parameters                                             | F   | 3.3.0           | 3.4.0       | T1-010205     |
| TP-12             | TP-010118     | 041 |     | Corrections to clause 6.10 TDD parameters                                             | F   | 3.3.0           | 3.4.0       | T1-010206     |
| TP-12             | TP-010118     | 042 |     | Adding section for radio bearer configurations intended for functional testing        | D   | 3.3.0           | 3.4.0       | T1-010210     |
| TP-12             | TP-010118     | 043 |     | Update of list of abbreviations                                                       | D   | 3.3.0           | 3.4.0       | T1-010211     |
| TP-12             | TP-010118     | 044 |     | Updates to clause 6.1 and 9                                                           | F   | 3.3.0           | 3.4.0       | T1-010212     |
| TP-12             | TP-010118     | 045 |     | Updates to clause 7.4                                                                 | F   | 3.3.0           | 3.4.0       | T1-010213     |
| TP-12             | TP-010118     | 046 |     | clause 6.1: System Information Blocks for TDD Mode                                    | F   | 3.3.0           | 3.4.0       | T1-010214     |
| TP-12             | TP-010118     | 047 |     | Editorial corrections and removal of a reference document                             | F   | 3.3.0           | 3.4.0       | T1-010215     |
| TP-13             | TP-010215     | 048 |     | Correction to reference                                                               | F   | 3.4.0           | 3.5.0       | T1-010275     |
| TP-13             | TP-010215     | 049 |     | Editorial modification for References                                                 | F   | 3.4.0           | 3.5.0       | T1-010276     |
| TP-13             | TP-010215     | 050 |     | Some corrections in clause 5                                                          | F   | 3.4.0           | 3.5.0       | T1-010277     |
| TP-13             | TP-010215     | 051 |     | Update to Scope Statement                                                             | F   | 3.4.0           | 3.5.0       | T1-010278     |
| TP-13             | TP-010215     | 052 |     | Clause 6.10 Definition of RB configurations, TDD parameters                           | F   | 3.4.0           | 3.5.0       | T1-010279     |
| TP-13             | TP-010215     | 053 |     | Updates to clause 6.1, clause 7.4 and clause 9                                        | F   | 3.4.0           | 3.5.0       | T1-010280     |
| TP-13             | TP-010215     | 054 |     | Clause 6.1: Default radio conditions for Signalling tests                             | F   | 3.4.0           | 3.5.0       | T1-010281     |

| Meeting-1st-Level | Doc-1st-Level | CR  | Rev | Subject                                                                                                                                   | Cat | Version-Current | Version-New | Doc-2nd-Level |
|-------------------|---------------|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------|-------------|---------------|
| TP-13             | TP-010215     | 055 |     | Correction of Radio Bearer Configurations for FDD Mode                                                                                    | F   | 3.4.0           | 3.5.0       | T1-010282     |
| TP-13             | TP-010215     | 056 |     | Correction of Radio Bearer Configurations for TDD Mode                                                                                    | F   | 3.4.0           | 3.5.0       | T1-010283     |
| TP-13             | TP-010215     | 057 |     | Changes to Signalling Radio Bearer (SRB) numbering                                                                                        | F   | 3.4.0           | 3.5.0       | T1-010284     |
| TP-13             | TP-010215     | 058 |     | Missing bearers in tables 6.10.2.1.1 and 6.10.3.1.1                                                                                       | F   | 3.4.0           | 3.5.0       | T1-010285     |
| TP-13             | TP-010215     | 059 |     | Correction of system information block 5                                                                                                  | F   | 3.4.0           | 3.5.0       | T1-010286     |
| TP-13             | TP-010215     | 060 |     | Introducing of 1.28 Mcps TDD Mode in clauses 4, 5 and 6                                                                                   | F   | 3.4.0           | 4.0.0       | T1-010287     |
| TP-13             | TP-010215     | 061 |     | Introduction of System Information Blocks for 1.28 Mcps TDD Mode                                                                          | F   | 3.4.0           | 4.0.0       | T1-010288     |
| TP-13             | TP-010215     | 062 |     | Introduction of typical radio parameters for 1.28 McpsTDD                                                                                 | F   | 3.4.0           | 4.0.0       | T1-010289     |
| TP-13             | TP-010215     | 063 |     | Clause 6.11 RBs for RLC and PDCP testing                                                                                                  | F   | 3.4.0           | 3.5.0       | T1-010290     |
| TP-14             | TP-010285     | 065 | 1   | Correction to 6.1 Contents of System Information Blocks                                                                                   | A   | 4.0.0           | 4.1.0       | T1-010475     |
| TP-14             | TP-010285     | 067 | 1   | Corrections to clause 6.1, 7.4 and 9                                                                                                      | A   | 4.0.0           | 4.1.0       | T1-010473     |
| TP-14             | TP-010258     | 069 |     | Reference Radio Conditions                                                                                                                | A   | 4.0.0           | 4.1.0       | T1-010461     |
| TP-14             | TP-010258     | 071 |     | Modification of Test procedures for RF tests                                                                                              | A   | 4.0.0           | 4.1.0       | T1-010463     |
| TP-14             | TP-010258     | 073 |     | Default message contents for RF tests                                                                                                     | A   | 4.0.0           | 4.1.0       | T1-010465     |
| TP-14             | TP-010258     | 075 |     | Correction to 6.10 Reference Radio Bearer configurations                                                                                  | A   | 4.0.0           | 4.1.0       | T1-010467     |
| TP-14             | TP-010258     | 077 |     | Definition of default value of rate matching attribute                                                                                    | A   | 4.0.0           | 4.1.0       | T1-010469     |
| TP-14             | TP-010258     | 079 |     | Update of clause 7.4 and 6.10                                                                                                             | A   | 4.0.0           | 4.1.0       | T1-010471     |
| TP-14             | TP-010292     | 081 |     | Correction on introduction of clause 6.10                                                                                                 | A   | 4.0.0           | 4.1.0       | --            |
| TP-15             | TP-020038     | 083 |     | Replacement of Block STTD by Space Code Transmit Diversity (SCTD) (Rel-4)                                                                 | A   | 4.1.0           | 4.2.0       | T1-020092     |
| TP-15             | TP-020038     | 085 |     | Update of reference radio conditions (Rel-4)                                                                                              | A   | 4.1.0           | 4.2.0       | T1-020098     |
| TP-15             | TP-020038     | 087 |     | Update of system reference configurations and default messages (Rel-4)                                                                    | A   | 4.1.0           | 4.2.0       | T1-020100     |
| TP-15             | TP-020038     | 089 |     | Corrections to 34108-410                                                                                                                  | A   | 4.1.0           | 4.2.0       | T1-020102     |
| TP-15             | TP-020038     | 091 |     | Introduction of new Reference RABs (Rel-4)                                                                                                | A   | 4.1.0           | 4.2.0       | T1-020195     |
| TP-15             | TP-020038     | 094 |     | Update of SIBs for TDD (both modes) in TS 34.108 (Rel4)                                                                                   | F   | 4.1.0           | 4.2.0       | T1-020107     |
| TP-15             | TP-020038     | 095 |     | Clarification of bit rate of Interactive/Background PS RAB function (Rel-4)                                                               | A   | 4.1.0           | 4.2.0       | T1-020184     |
|                   |               |     |     | Correction of CR implementation errors in clauses: 6.10.2.2 and 6.10.2.4.1.58.2.1.1                                                       |     | 4.2.0           | 4.2.1       |               |
| TP-16             | TP-020141     | 108 |     | Clause 7(reference) Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment TDD (3.84 Mcps and 1.28 Mcps) | F   | 4.2.1           | 4.3.0       | T1-020289     |
| TP-16             | TP-020141     | 109 |     | Correction to clause 7.3.3.4 RADIO BEARER SETUP message                                                                                   | A   | 4.2.1           | 4.3.0       | T1-020291     |
| TP-16             | TP-020141     | 110 |     | Change of RM attribute of DL:3.4 kbps SRBs for DCCH in for REL4                                                                           | A   | 4.2.1           | 4.3.0       | T1-020292     |
| TP-16             | TP-020141     | 111 |     | New additional RAB configuration ( R1-020669) for REL4                                                                                    | A   | 4.2.1           | 4.3.0       | T1-020293     |
| TP-16             | TP-020141     | 112 |     | Correction of Puncturing Limit for RABs for REL4                                                                                          | A   | 4.2.1           | 4.3.0       | T1-020294     |
| TP-16             | TP-020141     | 113 |     | Test USIM                                                                                                                                 | A   | 4.2.1           | 4.3.0       | T1-020295     |
| TP-16             | TP-020141     | 114 |     | Clause 6.1 (SIBs) Rel-4 (3.84 Mcps and 1.28 Mcps TDD)                                                                                     | F   | 4.2.1           | 4.3.0       | T1-020296     |
| TP-16             | TP-020141     | 115 |     | Clause 6.10 References for TDD about Clarification of bit rate of Interactive/Background PS RAB                                           | A   | 4.2.1           | 4.3.0       | T1-020297     |
| TP-16             | TP-020141     | 116 |     | Correction to default message in clause 9 for Rel4                                                                                        | A   | 4.2.1           | 4.3.0       | T1-020298     |
| TP-16             | TP-020141     | 117 |     | Correction to clause 6.1 for Rel4                                                                                                         | A   | 4.2.1           | 4.3.0       | T1-020299     |
| TP-16             | TP-020141     | 118 |     | WCDMA1800 additions for Rel4                                                                                                              | A   | 4.2.1           | 4.3.0       | T1-020300     |
| TP-16             | TP-020141     | 119 |     | Clause 9.1 Default message contents for TDD ( 3.84 Mcps and 1.28 Mcps) R4                                                                 | F   | 4.2.1           | 4.3.0       | T1-020301     |
| TP-16             | TP-020141     | 121 |     | Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment                                                   | A   | 4.2.1           | 4.3.0       | T1-020434     |
| TP-17             | TP-020184     | 123 | -   | Alignment of reference configurations on S-CCPCH with default system information messages                                                 | A   | 4.3.0           | 4.4.0       | T1-020503     |
| TP-17             | TP-020184     | 125 | -   | Addition of reference compressed mode pattern                                                                                             | A   | 4.3.0           | 4.4.0       | T1-020505     |
| TP-17             | TP-020184     | 127 | -   | Corrections to default message contents as T1S-020347rev1                                                                                 | A   | 4.3.0           | 4.4.0       | T1-020507     |
| TP-17             | TP-020184     | 129 | -   | Additional default message contents for RF Testing                                                                                        | A   | 4.3.0           | 4.4.0       | T1-020509     |
| TP-17             | TP-020184     | 131 | -   | Corrections related to SIB11, SIB12 and to the MEASUREMENT CONTROL message                                                                | A   | 4.3.0           | 4.4.0       | T1-020527     |
| TP-17             | TP-020184     | 133 | -   | Corrections to clause 6.1 (T1S-020349rev1)                                                                                                | A   | 4.3.0           | 4.4.0       | T1-020530     |
| TP-17             | TP-020184     | 135 | -   | Introduction of reference configurations on S-CCPCH and PRACH with two interactive PS domain RABs                                         | A   | 4.3.0           | 4.4.0       | T1-020539     |
| TP-17             | TP-020184     | 137 | -   | Removal of reference radio bearer configurations for unidirectional streaming CS RABa above 64 kbps                                       | A   | 4.3.0           | 4.4.0       | T1-020541     |

| Meeting-1st-Level | Doc-1st-Level | CR  | Rev | Subject                                                                                                                                             | Cat | Version-Current | Version-New | Doc-2nd-Level |
|-------------------|---------------|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------|-------------|---------------|
| TP-17             | TP-020184     | 140 | -   | Some corrections and updates in clause 6.1 for TDD mode                                                                                             | F   | 4.3.0           | 4.4.0       | T1-020576     |
| TP-17             | TP-020184     | 142 | -   | Inclusion of default message contents for RF in clause 9.2 for TDD mode                                                                             | F   | 4.3.0           | 4.4.0       | T1-020578     |
| TP-18             | TP-020293     | 144 | -   | Correction to default messages in 9.1 and 9.2                                                                                                       | A   | 4.4.0           | 4.5.0       | T1-020658     |
| TP-18             | TP-020293     | 146 | -   | Corrections in the TDD test frequencies according to core specs                                                                                     | A   | 4.4.0           | 4.5.0       | T1-020674     |
| TP-18             | TP-020293     | 148 | -   | Addition of alternative configuration using Turbo Coding for Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH | A   | 4.4.0           | 4.5.0       | T1-020694     |
| TP-18             | TP-020293     | 150 | -   | Correction to content of clause 6.10.2.                                                                                                             | A   | 4.4.0           | 4.5.0       | T1-020709     |
| TP-18             | TP-020293     | 152 | -   | Correction to SIB 11/12 definition                                                                                                                  | A   | 4.4.0           | 4.5.0       | T1-020712     |
| TP-18             | TP-020293     | 154 | -   | Reference Measurement Channels                                                                                                                      | A   | 4.4.0           | 4.5.0       | T1-020768     |
| TP-18             | TP-020293     | 156 | -   | Transferring system information definition using ASN.1 description to PRD                                                                           | A   | 4.4.0           | 4.5.0       | T1-020778     |
| TP-18             | TP-020293     | 158 | -   | Correction to RLC RAB TFCS                                                                                                                          | A   | 4.4.0           | 4.5.0       | T1-020780     |
| TP-18             | TP-020293     | 160 | -   | Default Message contents : Correction from CRs approved in RP17meeting                                                                              | A   | 4.4.0           | 4.5.0       | T1-020783     |
| TP-18             | TP-020293     | 162 | -   | Corrections to SIB1 to SIB6                                                                                                                         | A   | 4.4.0           | 4.5.0       | T1-020799     |
| TP-18             | TP-020293     | 164 | -   | Correction to RAB configurations as revision of T1S020756                                                                                           | A   | 4.4.0           | 4.5.0       | T1-020801     |
| TP-18             | TP-020293     | 166 | -   | Parameter addition for Reference RABs based on LS from RAN2                                                                                         | A   | 4.4.0           | 4.5.0       | T1-020803     |
| TP-18             | TP-020293     | 168 | -   | Addition to clause 7.4 for multi call as T1S-020577rev2 (revision to T1S020820)                                                                     | A   | 4.4.0           | 4.5.0       | T1-020818     |
| TP-18             | TP-020293     | 169 | -   | RAB Combinations for IMS Services                                                                                                                   | F   | 4.4.0           | 4.5.0       | T1-020819     |
| TP-18             | TP-020293     | 171 | -   | Correction to Contents of the Scheduling Block System Information in clause 6.1.3.                                                                  | F   | 4.4.0           | 4.5.0       | T1-020844     |
| TP-19             | TP-030044     | 173 | -   | RAB Removal from Rel-4 TS 34.108 as T1S030002rev1                                                                                                   | A   | 4.5.0           | 4.6.0       | T1-030037     |
| TP-19             | TP-030044     | 175 | -   | Combine all Radio Bearer Setup messages into one table                                                                                              | A   | 4.5.0           | 4.6.0       | T1-030040     |
| TP-19             | TP-030044     | 177 | -   | Corrections to SB and SIB configurations in clause 6.1 as T1S030046rev1                                                                             | A   | 4.5.0           | 4.6.0       | T1-030042     |
| TP-19             | TP-030044     | 179 | -   | Correction to TS 34.108 Rel-4 ; PAGING TYPE1 message (Packet in PS)                                                                                 | A   | 4.5.0           | 4.6.0       | T1-030044     |
| TP-19             | TP-030044     | 181 | -   | Clarification of authentication test algorithm and GSM cipher key                                                                                   | A   | 4.5.0           | 4.6.0       | T1-030046     |
| TP-19             | TP-030044     | 183 | -   | Addition of simulated network environment for inter-RAT test cases                                                                                  | A   | 4.5.0           | 4.6.0       | T1-030048     |
| TP-19             | TP-030044     | 185 | -   | Corrections to SIB1 to align with default values for LAC and RAC in 51.010-1.                                                                       | A   | 4.5.0           | 4.6.0       | T1-030050     |
| TP-19             | TP-030044     | 187 | -   | Addition of default inter-RAT handover messages                                                                                                     | A   | 4.5.0           | 4.6.0       | T1-030052     |
| TP-19             | TP-030044     | 189 | -   | Correction of activation time IEs in default messages                                                                                               | A   | 4.5.0           | 4.6.0       | T1-030054     |
| TP-19             | TP-030044     | 191 | -   | Correction to default SECURITY MODE COMMAND message                                                                                                 | A   | 4.5.0           | 4.6.0       | T1-030056     |
| TP-19             | TP-030044     | 193 | -   | Addition of option for UL CM only in default reference CM patterns                                                                                  | A   | 4.5.0           | 4.6.0       | T1-030058     |
| TP-19             | TP-030044     | 195 | -   | Introduction of a reference RB configuration for RMC for BTFD tests (Rel4)                                                                          | A   | 4.5.0           | 4.6.0       | T1-030060     |
| TP-19             | TP-030044     | 197 | -   | Update of the RRC connection request messages in 34.108 Rel4                                                                                        | A   | 4.5.0           | 4.6.0       | T1-030063     |
| TP-19             | TP-030043     | 198 | -   | Introduction of Conversational PS RABs in Rel-4 TS 34.108 as T1S030003rev1                                                                          | F   | 4.5.0           | 4.6.0       | T1-030107     |
| TP-19             | TP-030043     | 200 | -   | Update of default parameters for 1 to 8 cell environments (TDD), clause 6.1.4, Rel-4                                                                | A   | 4.5.0           | 4.6.0       | T1-030208     |
| TP-19             | TP-030043     | 202 | -   | Update of Multi-cell environment for default radio conditions (TDD), clause 6.1.6 (Inclusion of cell 4), Rel-4                                      | A   | 4.5.0           | 4.6.0       | T1-030210     |
| TP-19             | TP-030043     | 204 | -   | Modification to Generic Registration Procedures                                                                                                     | A   | 4.5.0           | 4.6.0       | T1-030222     |
| TP-19             | TP-030043     | 206 | -   | Update of default configurations to enable testing of low end UE                                                                                    | A   | 4.5.0           | 4.6.0       | T1-030228     |
| TP-20             | TP-030098     | 208 | -   | Reinstate parameters for Interactive or background /UL:64 kbps / PS RAB                                                                             | A   | 4.6.0           | 4.7.0       | T1-030437     |
| TP-20             | TP-030098     | 210 | -   | Correction to Figure 7.4.1.1 (Rel-4)                                                                                                                | A   | 4.6.0           | 4.7.0       | T1-030483     |
| TP-20             | TP-030098     | 212 | -   | Update of SIB 11 and 12 in clause 6.1.0b in TS 34.108 (TDD)                                                                                         | A   | 4.6.0           | 4.7.0       | T1-030507     |
| TP-20             | TP-030098     | 214 | -   | Update of Default parameters for 1 to 8 cell environments in TS 34.108 (TDD)                                                                        | A   | 4.6.0           | 4.7.0       | T1-030509     |
| TP-20             | TP-030098     | 216 | -   | Correction of default messages according to 25331 CR1823                                                                                            | A   | 4.6.0           | 4.7.0       | T1-030632     |
| TP-20             | TP-030098     | 218 | -   | Clause 8.2: Definition of default values for authentication key K on test USIM                                                                      | A   | 4.6.0           | 4.7.0       | T1-030644     |

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| TP-20             | TP-030098     | 219 | -   | Update of Reconfiguration messages                                                                                        | A   | 4.6.0           | 4.7.0       | T1-030692     |
| TP-20             | TP-030098     | 221 | -   | Correction to RADIO BEARER RELEASE and RRC CONNECTION SETUP messages (Revision of T1-030569)                              | A   | 4.6.0           | 4.7.0       | T1-030699     |
| TP-20             | TP-030140     | 226 | -   | Correction to default SIB5 (FDD)                                                                                          | A   | 4.6.0           | 4.7.0       | T1-030745     |
| TP-21             | TP-030191     | 228 | -   | CR to 34.108, Rel-4, Clarification of seg_count in 6.1.0a.3                                                               | A   | 4.7.0           | 4.8.0       | T1-030827     |
| TP-21             | TP-030191     | 230 | -   | General correction in clause 7.4 for Common generic procedures for AS testing                                             | A   | 4.7.0           | 4.8.0       | T1-030976     |
| TP-21             | TP-030191     | 233 | -   | Incorrect activation time in CELL_FACH state .                                                                            | A   | 4.7.0           | 4.8.0       | T1-031064     |
| TP-21             | TP-030191     | 235 | -   | Incorrect Transport channel Parameters                                                                                    | A   | 4.7.0           | 4.8.0       | T1-031066     |
| TP-21             | TP-030191     | 237 | -   | Corrections to TS 34.108 common procedures in clause 7.4 of Rel-4 of TS 34.108                                            | A   | 4.7.0           | 4.8.0       | T1-031095     |
| TP-21             | TP-030191     | 239 | -   | Removal of RLC AM in the Default Message Content                                                                          | A   | 4.7.0           | 4.8.0       | T1-031151     |
| TP-21             | TP-030191     | 242 | -   | CR 34.108 Rel-4: Manual attach in State 7 Registered Idle Mode on CS/PS                                                   | A   | 4.7.0           | 4.8.0       | T1-031175     |
| TP-21             | TP-030191     | 244 | -   | URA Identity in Cell Update Confirm and URA Update Confirm                                                                | A   | 4.7.0           | 4.8.0       | T1-031179     |
| TP-21             | TP-030191     | 246 | -   | CR to 34.108 R4; Correction to specification to reflect a change already approved in TTCN CR T1-030396                    | A   | 4.7.0           | 4.8.0       | T1-031241     |
| TP-21             | TP-030191     | 248 | -   | CR to 34.108 REL-4; Correction to clause 7.3 Test procedures for RF test                                                  | A   | 4.7.0           | 4.8.0       | T1-031251     |
| TP-21             | TP-030191     | 240 | -   | RB configuration for the support of wideband AMR speech telephony services                                                | F   | 4.7.0           | 4.8.0       | T1-031154     |
| TP-22             | TP-030279     | 251 | 1   | Addition of Default message contents for TDD                                                                              | F   | 4.8.0           | 4.9.0       | T1-031659     |
| TP-22             | TP-030279     | 252 | 1   | Addition of Default message contents for TDD                                                                              | F   | 4.8.0           | 4.9.0       | T1-031660     |
| TP-22             | TP-030279     | 253 | 1   | Addition of Default message contents for TDD                                                                              | F   | 4.8.0           | 4.9.0       | T1-031661     |
| TP-22             | TP-030279     | 254 | 1   | Addition of Default message contents for TDD                                                                              | F   | 4.8.0           | 4.9.0       | T1-031662     |
| TP-22             | TP-030279     | 255 | 1   | Addition of Default message contents for TDD                                                                              | F   | 4.8.0           | 4.9.0       | T1-031663     |
| TP-22             | TP-030279     | 256 | 1   | Addition of Default message contents for TDD                                                                              | F   | 4.8.0           | 4.9.0       | T1-031664     |
| TP-22             | TP-030279     | 257 | 1   | Addition of Default message contents for TDD                                                                              | F   | 4.8.0           | 4.9.0       | T1-031665     |
| TP-22             | TP-030279     | 258 | 1   | Addition of Default message contents for TDD                                                                              | F   | 4.8.0           | 4.9.0       | T1-031666     |
| TP-22             | TP-030279     | 260 | 2   | CR on PAGING TYPE 1, RRC CONNECTION REQUEST and RRC CONNECTION SETUP messages for MT RR Connection                        | A   | 4.8.0           | 4.9.0       | T1-031596     |
| TP-22             | TP-030279     | 262 |     | CR 34.108 Rel-4: EFRPLMNACT (RPLMN Last used Access Technology) removed                                                   | A   | 4.8.0           | 4.9.0       | T1-031381     |
| TP-22             | TP-030279     | 264 | 1   | Update of default messages for RRC CONNECTION SETUP and SECURITY MODE COMMAND                                             | A   | 4.8.0           | 4.9.0       | T1-031547     |
| TP-22             | TP-030279     | 266 | 1   | Description and corrections of channels for minimum performance levels, TDD mode.                                         | F   | 4.8.0           | 4.9.0       | T1-031645     |
| TP-22             | TP-030279     | 268 | 1   | Test frequencies of UMTS800MHz band VI                                                                                    | A   | 4.8.0           | 4.9.0       | T1-031555     |
| TP-22             | TP-030279     | 269 |     | CR 34.108 Rel-4: Addition of Bearer combination for Interactive/background UL 64 kbps DL 768 kbps for Rel-5               | F   | 4.8.0           | 4.9.0       | T1-031441     |
| TP-22             | TP-030279     | 271 | 1   | Update of generic test procedure for TX, RX and Performance Requirement                                                   | A   | 4.8.0           | 4.9.0       | T1-031610     |
| TP-22             | TP-030279     | 273 | 1   | Introduction of generic test procedure for RRM handover test cases                                                        | A   | 4.8.0           | 4.9.0       | T1-031608     |
| TP-22             | TP-030279     | 275 | 1   | Correction of CM TGD parameter                                                                                            | A   | 4.8.0           | 4.9.0       | T1-031591     |
| TP-22             | TP-030279     | 277 | 1   | Corrections to default message contents of Radio Bearer Release                                                           | F   | 4.8.0           | 4.9.0       | T1-031594     |
| TP-22             | TP-030279     | 279 | 1   | Modification to default DPCH Power_offset value                                                                           | A   | 4.8.0           | 4.9.0       | T1-031598     |
| TP-22             | TP-030279     | 283 |     | Correction of TFCS for radio bearer combination 6.10.2.4.1.51b                                                            | A   | 4.8.0           | 4.9.0       | T1-031527     |
| TP-23             | TP-040037     | 284 | -   | New Radio Bearer Setup (FDD) message for RF (Revision of T1-040258)                                                       | F   | 4.9.0           | 4.10.0      | T1-040417     |
| TP-23             | TP-040037     | 287 | -   | Corrections to default message contents of RRC Connection Setup message -> 2nd change not implemented (not implementable) | A   | 4.9.0           | 4.10.0      | T1-040080     |
| TP-23             | TP-040037     | 289 | -   | Correction to Default parameters for Cells 1 to 8 in MultiPLMN cell environments - Rel-4                                  | A   | 4.9.0           | 4.10.0      | T1-040095     |
| TP-23             | TP-040037     | 291 | -   | Corrections to TDD HCR RABs                                                                                               | A   | 4.9.0           | 4.10.0      | T1-040103     |
| TP-23             | TP-040037     | 296 | -   | LCR Corrections to TDD RABs merge of T1-040104 , T1-040201 and T1-040203                                                  | F   | 4.9.0           | 4.10.0      | T1-040299     |
| TP-23             | TP-040037     | 298 | -   | Correction to handling of Entered Parameter IE in default contents for Initial Direct Transfer                            | A   | 4.9.0           | 4.10.0      | T1-040411     |
| TP-23             | TP-040037     | 300 | -   | The diverse operation in TDD mode updating according to the core specification                                            | A   | 4.9.0           | 4.10.0      | T1-040368     |
| TP-23             | TP-040037     | 302 | -   | correction of measurement control default message contents for TDD -> Not implemented (not implementable)                 | F   | 4.9.0           | 4.10.0      | T1-040370     |

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| TP-23             | TP-040037     | 303 | -   | correction of RADIO BEARER SETUP default message contents for 1.28 Mcps TDD                                                  | F   | 4.9.0           | 4.10.0      | T1-040371     |
| TP-23             | TP-040037     | 304 | -   | Correction of RADIO BEARER RELEASE default message contents for TDD: AM or UM (1.28 Mcps TDD)                                | F   | 4.9.0           | 4.10.0      | T1-040372     |
| TP-23             | TP-040037     | 305 | -   | Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (1.28 Mcps TDD) -> Not implemented (not implementable) | F   | 4.9.0           | 4.10.0      | T1-040373     |
| TP-23             | TP-040037     | 292 | -   | New I/B UL:64 DL:768 kbps PS RAB misplaced                                                                                   | F   | 4.10.0          | 5.0.0       | T1-040109     |
| TP-23             | TP-040037     | 294 | -   | Generic setup procedure and default message contents for HSDPA (as of T1-040069rev1)                                         | F   | 4.10.0          | 5.0.0       | T1-040271     |
| TP-23             | TP-040037     | 295 | -   | Baseline radio bearer combination for HSDPA support                                                                          | B   | 4.10.0          | 5.0.0       | T1-040273     |
| TP-24             | TP-040112     | 308 | -   | Correction to IEs "START" and "ul_CounterSynchronisationInfo".                                                               | F   | 5.0.0           | 5.1.0       | T1-040512     |
| TP-24             | TP-040112     | 309 | -   | Correction to HSDPA reference radio bearer configurations                                                                    | F   | 5.0.0           | 5.1.0       | T1-040522     |
| TP-24             | TP-040112     | 310 | -   | Addition of test procedure for HSDPA RF testing                                                                              | F   | 5.0.0           | 5.1.0       | T1-040546     |
| TP-24             | TP-040112     | 315 | -   | Corrections to default RRC messages                                                                                          | F   | 5.0.0           | 5.1.0       | T1-040593     |
| TP-24             | TP-040112     | 318 | -   | Change of default LAC/RAC for inter-RAT test cases                                                                           | A   | 5.0.0           | 5.1.0       | T1-040656     |
| TP-24             | TP-040112     | 319 | -   | Contents of Physical channel Reconfiguration message modified to incorporate transition to URA_PCH or CELL_PCH               | F   | 5.0.0           | 5.1.0       | T1-040673     |
| TP-24             | TP-040112     | 320 | -   | Correction of reference test frequencies for UMTS800(band VI)                                                                | F   | 5.0.0           | 5.1.0       | T1-040701     |
| TP-24             | TP-040112     | 325 | -   | Update of generic setup procedures in clauses 7.3.4 and 7.3.5.                                                               | A   | 5.0.0           | 5.1.0       | T1-040754     |
| TP-24             | TP-040112     | 326 | -   | Physical channel parameters for AM RLC 7 bit Length Indicator TestCases (Rel-5)                                              | F   | 5.0.0           | 5.1.0       | T1-040902     |
| TP-24             | TP-040112     | 327 | -   | Corrections to the default contents of Security Mode Command (Rel-5)                                                         | F   | 5.0.0           | 5.1.0       | T1-040903     |
| TP-24             | TP-040112     | 330 | -   | Corrections to Contents of Scheduling Block 1 (FDD)                                                                          | F   | 5.0.0           | 5.1.0       | T1-040909     |
| TP-24             | TP-040112     | 331 | -   | Corrections to Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM                                                | F   | 5.0.0           | 5.1.0       | T1-040911     |
| TP-24             | TP-040112     | 332 | -   | Corrections to Contents of RRC CONNECTION SETUP message: UM                                                                  | F   | 5.0.0           | 5.1.0       | T1-040913     |
| TP-24             | TP-040112     | 333 | -   | RADIO BEARER SETUP message (FDD) for Test Loop Mode2.                                                                        | F   | 5.0.0           | 5.1.0       | T1-040917     |
| TP-24             | TP-040112     | 335 | -   | Changes to establish one version of 34.108 covering all releases                                                             | A   | 5.0.0           | 5.1.0       | T1-040931     |
| TP-24             | TP-040112     | 338 | -   | Addition of generic test procedure for AS test cases using the test loop                                                     | A   | 5.0.0           | 5.1.0       | T1-040934     |
| TP-24             | TP-040112     | 339 | -   | Corrections to LCR TDD RABs                                                                                                  | F   | 5.0.0           | 5.1.0       | T1-040935     |
| TP-25             | TP-040157     | 343 | -   | Correction to generic test procedure in clause 7.4.2.6a.                                                                     | F   | 5.1.0           | 5.2.0       | T1-041040     |
| TP-25             | TP-040157     | 344 | -   | Addition of default messages for Signalling (FDD)                                                                            | F   | 5.1.0           | 5.2.0       | T1-041044     |
| TP-25             | TP-040157     | 345 | -   | Minor change to terminology in SRB tables of clause 6.10                                                                     | F   | 5.1.0           | 5.2.0       | T1-041140     |
| TP-25             | TP-040157     | 346 | -   | Default Message Content for System Information Block type 5 (FDD) and type 6 (FDD)                                           | F   | 5.1.0           | 5.2.0       | T1-041154     |
| TP-25             | TP-040157     | 347 | -   | Corrections to DCCH Transport channel Parameters for HSDPA RAB                                                               | D   | 5.1.0           | 5.2.0       | T1-041171     |
| TP-25             | TP-040157     | 348 | -   | Corrections to clause 9                                                                                                      | F   | 5.1.0           | 5.2.0       | T1-041223     |
| TP-25             | TP-040157     | 349 | -   | Corrections to HCR TDD RAB combinations                                                                                      | F   | 5.1.0           | 5.2.0       | T1-041235     |
| TP-25             | TP-040157     | 350 | -   | Adding missing clause 6.10.2.4.1.62.1                                                                                        | F   | 5.1.0           | 5.2.0       | T1-041252     |
| TP-25             | TP-040157     | 351 | -   | Modification of AICH power offset in SysInfo 5 and 6.                                                                        | F   | 5.1.0           | 5.2.0       | T1-041253     |
| TP-25             | TP-040157     | 352 | -   | Correction to Default Message Content for Radio Bearer Setup Message.                                                        | F   | 5.1.0           | 5.2.0       | T1-041259     |
| TP-25             | TP-040157     | 353 | -   | Correction to Default Message Content for Radio Bearer Reconfiguration Message for Condition A6                              | F   | 5.1.0           | 5.2.0       | T1-041266     |
| TP-25             | TP-040157     | 354 | -   | CR to 34.108: introduction of default RB SETUP message from cell_FACH state for HSDPA                                        | F   | 5.1.0           | 5.2.0       | T1-041298     |
| TP-25             | TP-040157     | 355 | -   | Corrections to Contents of RADIO BEARER SETUP message: BTFD RMC                                                              | F   | 5.1.0           | 5.2.0       | T1-041317     |
| TP-25             | TP-040157     | 340 | -   | Resolution of downlink code conflict between OCNS DPCH and S-CCPCH                                                           | F   | 5.1.0           | 5.2.0       | T1-041327     |
| TP-25             | TP-040157     | 361 | -   | Correction to test procedure for test cases using Cell_PCH or URA_PCH state                                                  | F   | 5.1.0           | 5.2.0       | T1-041346     |
| TP-25             | TP-040157     | 362 | -   | Removal of DCCH dummy transmission for RF testing                                                                            | F   | 5.1.0           | 5.2.0       | T1-041350     |
| TP-25             | TP-040157     | 341 | -   | Correct title to test procedure for test cases using Cell_PCH or URA_PCH state                                               | F   | 5.1.0           | 5.2.0       | T1-041354     |
| TP-25             | TP-040157     | 363 | -   | Addition of intra frequency cell to cell environments                                                                        | F   | 5.1.0           | 5.2.0       | T1-041356     |
| TP-25             | TP-040157     | 342 | -   | Correct primary scrambling code usage in default message contents in clause 9.2.1                                            | F   | 5.1.0           | 5.2.0       | T1-041365     |
| TP-25             | TP-040157     | 356 | -   | HSDPA downlink code allocation                                                                                               | F   | 5.1.0           | 5.2.0       | T1-041374     |



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| TP-25             | TP-040157     | 357 | -   | Correction to test procedure for test cases using CELL_FACH state                                                          | F   | 5.1.0           | 5.2.0       | T1-041376     |
| TP-25             | TP-040157     | 358 | -   | Varying DPCH Power Offset according to data transmission rate                                                              | F   | 5.1.0           | 5.2.0       | T1-041416     |
| TP-25             | TP-040157     | 359 | -   | Corrections to default message for RADIO BEARER SETUP message in clause 9.2.1 (HSDPA RF)                                   | F   | 5.1.0           | 5.2.0       | T1-041418     |
| TP-25             | TP-040157     | 360 | -   | Test SIB schedule for two S-CCPCH or two PRACH in 34.108                                                                   | F   | 5.1.0           | 5.2.0       | T1-041422     |
| TP-25             | TP-040157     | 364 | -   | Correction to Default Message Content for Radio Bearer Setup Message re: RM Attribute values                               | F   | 5.1.0           | 5.2.0       | T1-041433     |
| TP-26             | TP-040233     | 365 | -   | CR to 34.108 Rel-5: Correction to default value of Qrxlevmin                                                               | F   | 5.2.0           | 5.3.0       | T1-041532     |
| TP-26             | TP-040233     | 366 | -   | CR to 34.108 Rel-5: Corrections of the values in 6.11.5.4 for LCR TDD                                                      | F   | 5.2.0           | 5.3.0       | T1-041573     |
| TP-26             | TP-040233     | 367 | -   | Alignment of Prose to TTCN for SCH power level                                                                             | F   | 5.2.0           | 5.3.0       | T1-041584     |
| TP-26             | TP-040233     | 368 | -   | Addition of new HSDPA RAB configurations with UL 64 kbps                                                                   | F   | 5.2.0           | 5.3.0       | T1-041651     |
| TP-26             | TP-040233     | 369 | -   | Correction to initial conditions and references in clause 7.3                                                              | F   | 5.2.0           | 5.3.0       | T1-041654     |
| TP-26             | TP-040233     | 370 | -   | Introduction of reference radio bearer combination for PS streaming and downlink rate up to 128 kbps                       | F   | 5.2.0           | 5.3.0       | T1-041685     |
| TP-26             | TP-040233     | 371 | -   | Correction of clause 6.1 (Simulated network environment)                                                                   | F   | 5.2.0           | 5.3.0       | T1-041686     |
| TP-26             | TP-040233     | 372 | -   | Correction to generic Call Setup procedure for mobile terminating circuit switched calls                                   | F   | 5.2.0           | 5.3.0       | T1-041699     |
| TP-26             | TP-040233     | 373 | -   | CR to 34.108 Rel-5; Corrections to the default RADIO BEARER SETUP message for HSDPA                                        | F   | 5.2.0           | 5.3.0       | T1-041754     |
| TP-26             | TP-040233     | 374 | -   | Physical layer multiplexing configuration in case of AMR and two PS RABs                                                   | F   | 5.2.0           | 5.3.0       | T1-041801     |
| TP-26             | TP-040233     | 375 | -   | Addition of new HSDPA RAB configurations                                                                                   | F   | 5.2.0           | 5.3.0       | T1-041802     |
| TP-26             | TP-040233     | 376 | -   | Introduction of information for tests for Performance requirements for A-GPS.                                              | B   | 5.2.0           | 5.3.0       | T1-041850     |
| TP-26             | TP-040233     | 377 | -   | Introduction of UMTS-850 MHz band V                                                                                        | F   | 5.2.0           | 5.3.0       | T1-041874     |
| TP-26             | TP-040233     | 378 | -   | CR to TS 34.108 Rel-5; Adding a new test condition for RADIO BEARER RELEASE Procedure (Revision of T1-041716).             | F   | 5.2.0           | 5.3.0       | T1-041933     |
| TP-26             | TP-040233     | 379 | -   | Update of Reference Radio Bearer for Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB for DL SF=256                   | F   | 5.2.0           | 5.3.0       | T1-041942     |
| TP-26             | TP-040233     | 380 | -   | CR to 34.108: Correction to the maximum bit rate for HS-PDSCH                                                              | F   | 5.2.0           | 5.3.0       | T1-041943     |
| TP-26             | TP-040233     | 381 | -   | Alignment of Prose to TTCN for RRC Connection Release (Cell DCH state) and RRC Connection Setup Message (Cell FACH State). | F   | 5.2.0           | 5.3.0       | T1-041965     |
| TP-27             | TP-050032     | 382 | -   | Updates from core specification changes                                                                                    | F   | 5.3.0           | 5.4.0       | T1-050095     |
| TP-27             | TP-050032     | 383 | -   | Correction to Hand over test procedure in CELL_DCH                                                                         | F   | 5.3.0           | 5.4.0       | T1-050350     |
| TP-27             | TP-050032     | 384 | -   | CR to 34.108: Changes to test frequencies for UMTS 850 Band                                                                | B   | 5.3.0           | 5.4.0       | T1-050380     |
| TP-27             | TP-050032     | 385 | -   | Correction to default SIB configurations                                                                                   | F   | 5.3.0           | 5.4.0       | T1-050019     |
| TP-27             | TP-050032     | 386 | -   | Editorial corrections in HSDPA RAB configurations 6.10.2.4.5.2 and 6.10.2.4.5.4.                                           | D   | 5.3.0           | 5.4.0       | T1-050052     |
| TP-27             | TP-050032     | 387 | -   | CR to 34.108 Rel-5: Update to the contents of PHYSICAL CHANNEL RECONFIGURATION message for 1.28 Mcps TDD                   | F   | 5.3.0           | 5.4.0       | T1-050064     |
| TP-27             | TP-050032     | 388 | -   | CR to 34.108 Rel-5: Update to the contents of TRANSPORT CHANNEL RECONFIGURATION message for 1.28 Mcps TDD                  | F   | 5.3.0           | 5.4.0       | T1-050065     |
| TP-27             | TP-050032     | 389 | -   | CR to 34.108 Rel-5: Update to the contents of RRC CONNECTION REQUEST message for TDD                                       | F   | 5.3.0           | 5.4.0       | T1-050066     |
| TP-27             | TP-050032     | 390 | -   | Correction to the HSDPA RB Identity in Radio Bearer Setup & Radio Bearer Release message contents                          | F   | 5.3.0           | 5.4.0       | T1-050072     |
| TP-27             | TP-050032     | 391 | -   | CR to TS 34.108 v5.3.0 - Correction to Default RADIO BEARER RELEASE message (FDD)                                          | F   | 5.3.0           | 5.4.0       | T1-050202     |
| TP-27             | TP-050032     | 392 | -   | Addition of reference radio bearer configuration for MAC-hs testing                                                        | F   | 5.3.0           | 5.4.0       | T1-050239     |
| TP-27             | TP-050032     | 393 | -   | CR to 34.108 Rel-5: Update to the contents of RRC CONNECTION REQUEST message for TDD                                       | F   | 5.3.0           | 5.4.0       | T1-050295     |
| TP-27             | TP-050032     | 394 | -   | CR to 34.108 Rel-5: Update to the contents of Default System Information Block Messages for TDD                            | F   | 5.3.0           | 5.4.0       | T1-050296     |
| TP-27             | TP-050032     | 395 | -   | CR to 34.108 Rel-5: Add the contents of SIB 5 & 6 for HCR TDD                                                              | F   | 5.3.0           | 5.4.0       | T1-050297     |
| TP-27             | TP-050032     | 396 | -   | Correction to TFCS ordering                                                                                                | F   | 5.3.0           | 5.4.0       | T1-050451r1   |
| TP-27             | TP-050032     | 397 | -   | Addition of GPS scenario and A-GPS assistance data                                                                         | F   | 5.3.0           | 5.4.0       | T1-050458     |

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|                   |               |     |     | values for signalling tests to 34.108                                                                                               |     |                 |             |               |
| TP-27             | TP-050032     | 398 | -   | CR to TS 34.108 Rel-5; Correction to the physical channel parameters (Revision of T1-050176)                                        | F   | 5.3.0           | 5.4.0       | T1-050469     |
| RP-28             | RP-050267     | 399 | -   | Additional call setup procedures for inter RAT RRM testing                                                                          | F   | 5.4.0           | 5.5.0       | R5-050618     |
| RP-28             | RP-050267     | 400 | -   | CR to 34.108: Correction to RADIO BEARER SETUP message for BTDF RMC                                                                 | F   | 5.4.0           | 5.5.0       | R5-050704     |
| RP-28             | RP-050267     | 401 | -   | CR to 34.108: Correction to reference radio conditions for GSM                                                                      | F   | 5.4.0           | 5.5.0       | R5-050811     |
| RP-28             | RP-050267     | 402 | -   | Addition of RADIO BEARER SETUP Messages for Auxiliary Measurement                                                                   | F   | 5.4.0           | 5.5.0       | R5-050856     |
| RP-28             | RP-050267     | 404 | -   | CR 34.108 Addition of specific message content to A-GPS performance test procedures in clause 7.5                                   | F   | 5.4.0           | 5.5.0       | R5-050709     |
| RP-28             | RP-050267     | 405 | -   | CR to 34.108 Rel-5: Clarification of generic setup procedures in section 7.3.4                                                      | F   | 5.4.0           | 5.5.0       | R5-050663     |
| RP-28             | RP-050267     | 406 | -   | Removal of TGPL2                                                                                                                    | F   | 5.4.0           | 5.5.0       | R5-050513     |
| RP-28             | RP-050267     | 407 | -   | Addition of compressed mode pattern for Inter Frequency FDD measurement & Inter RAT measurement GSM                                 | F   | 5.4.0           | 5.5.0       | R5-050525     |
| RP-28             | RP-050267     | 408 | -   | Correction to MIB, PLMN and Cell Value Tag Value Definition to 34.108                                                               | F   | 5.4.0           | 5.5.0       | R5-050608     |
| RP-28             | RP-050267     | 409 | -   | CR to 34.108 Rel-5: Corrections to the contents of System Information Block type 11 (3.84 Mcps and 1.28 Mcps TDD) in section 6.1.0b | F   | 5.4.0           | 5.5.0       | R5-050613     |
| RP-28             | RP-050267     | 410 | -   | CR to 34.108 Rel-5: Corrections to the usage of 'Cell info' IE in System Information Block type 11 in section 6.1.4 for TDD cell    | F   | 5.4.0           | 5.5.0       | R5-050619     |
| RP-28             | RP-050267     | 411 | -   | CR to 34.108 Rel-5: Corrections to the contents of System Information Block type 5 (1.28 Mcps TDD)                                  | F   | 5.4.0           | 5.5.0       | R5-050620     |
| RP-28             | RP-050267     | 412 | -   | Update to clause 8 Test USIM Parameters                                                                                             | F   | 5.4.0           | 5.5.0       | R5-050638     |
| RP-28             | RP-050267     | 413 | -   | CR to 34.108 Rel-5: Update of SIB3, SIB4, SIB11 and SIB12 for TDD in section 6.1.0b                                                 | F   | 5.4.0           | 5.5.0       | R5-050662     |
| RP-28             | RP-050267     | 414 | -   | CR to 34.108: Correction to TFCS                                                                                                    | F   | 5.4.0           | 5.5.0       | R5-050677     |
| RP-28             | RP-050267     | 415 | -   | CR to TS34.108 Rel-5; Correction to the physical channel parameter                                                                  | F   | 5.4.0           | 5.5.0       | R5-050724     |
| RP-28             | RP-050267     | 416 | -   | Correction to default SIB configurations                                                                                            | F   | 5.4.0           | 5.5.0       | R5-050947     |
| RP-28             | RP-050267     | 417 | -   | CR to 34.108: Missing Rel-5 IE's in the default Radio Bearer Setup message at section 9.1.1.                                        | F   | 5.4.0           | 5.5.0       | R5-050600     |
| RP-28             | RP-050267     | 418 | -   | CR to TS34.108 Rel-5; Clarification of the reference TFCS for three RB multiplexing option (condition A9)                           | F   | 5.4.0           | 5.5.0       | R5-050913     |
| RP-28             | RP-050268     | 419 | -   | Addition of new HSDPA Streaming RAB configurations                                                                                  | F   | 5.4.0           | 5.5.0       | R5-050880     |
| RP-28             | RP-050268     | 420 | -   | CR to 34.108 Rel-5: Content Correction of RRC CONNECTION SETUP message for LCR TDD in 9.1.2                                         | F   | 5.4.0           | 5.5.0       | R5-050585     |
| RP-28             | RP-050268     | 421 | -   | Add Default RADIO BEARER RELEASE message (3.84 Mcps TDD)                                                                            | F   | 5.4.0           | 5.5.0       | R5-050680     |
| RP-28             | RP-050268     | 422 | -   | Add Default Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM (3.84 Mcps TDD)                                           | F   | 5.4.0           | 5.5.0       | R5-050681     |
| RP-28             | RP-050268     | 423 | -   | Add Default Contents of RADIO BEARER RECONFIGURATION message: AM or UM (3.84 Mcps TDD)                                              | F   | 5.4.0           | 5.5.0       | R5-050682     |
| RP-28             | RP-050268     | 424 | -   | Add Default Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM (3.84 Mcps TDD)                                          | F   | 5.4.0           | 5.5.0       | R5-050683     |
| RP-28             | RP-050268     | 425 | -   | Add Default Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM (3.84 Mcps TDD)                                       | F   | 5.4.0           | 5.5.0       | R5-050684     |
| RP-28             | RP-050268     | 426 | -   | Add Default Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM (3.84 Mcps TDD)                                         | F   | 5.4.0           | 5.5.0       | R5-050685     |
| RP-28             | RP-050268     | 427 | -   | Add Default Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM (3.84 Mcps TDD)                                      | F   | 5.4.0           | 5.5.0       | R5-050686     |
| RP-28             | RP-050268     | 428 | -   | Add Default Contents of MEASUREMENT REPORT message: AM (intra/inter-frequency measurement (3.84 Mcps TDD)                           | F   | 5.4.0           | 5.5.0       | R5-050956     |
| RP-28             | RP-050268     | 430 | -   | Correction to RADIO BEARER SETUP message for HSDPA RF testing                                                                       | F   | 5.4.0           | 5.5.0       | R5-050879     |
| RP-28             | RP-050349     | 403 | -   | Addition of GPS scenario and assistance data for A-GPS performance tests in 34.108                                                  | B   | 5.4.0           | 5.5.0       | R5-050836     |
| RP-28             | RP-050350     | 429 | -   | Corrections to section 10.7 and GPS data file for 34.108                                                                            | F   | 5.4.0           | 5.5.0       | R5-050969     |
| RP-29             | RP-050600     | 431 | -   | Feature Clean Up: Removal of DRAC from section 9 of                                                                                 | F   | 5.5.0           | 6.0.0       | R5-051312     |

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|                   |               |     |     | 34.108                                                                                                                                                                                                                   |     |                 |             |               |
| RP-29             | RP-050600     | 432 | -   | Feature Clean Up: Removal of SSDT from 34.108                                                                                                                                                                            | F   | 5.5.0           | 6.0.0       | R5-051356     |
| RP-29             | RP-050600     | 433 | -   | Feature Clean Up: Removal of 80 ms TTI for DCH for all cases except when the UE supports SF512 from 34.108                                                                                                               | F   | 5.5.0           | 6.0.0       | R5-051379     |
| RP-29             | RP-050600     | 434 | -   | Feature Clean Up: Removal of CPCH from section 4 of 34.108                                                                                                                                                               | C   | 5.5.0           | 6.0.0       | R5-051543     |
| RP-29             | RP-050600     | 435 | -   | Feature Clean Up: Removal of CPCH from section 6 of 34.108                                                                                                                                                               | C   | 5.5.0           | 6.0.0       | R5-051544     |
| RP-29             | RP-050600     | 436 | -   | Feature Clean Up: Removal of CPCH from section 7 & 8 of 34.108                                                                                                                                                           | C   | 5.5.0           | 6.0.0       | R5-051545     |
| RP-29             | RP-050600     | 437 | -   | Feature Clean Up: Removal of CPCH from section 9 of 34.108                                                                                                                                                               | C   | 5.5.0           | 6.0.0       | R5-051546     |
| RP-29             | RP-050600     | 438 | -   | Feature Clean Up: Removal of DSCH ( FDD mode) from 34.108                                                                                                                                                                | F   | 5.5.0           | 6.0.0       | R5-051548     |
| RP-29             | RP-050600     | 439 | -   | Modification to PS setup procedure for inter RAT RRM testing                                                                                                                                                             | F   | 5.5.0           | 6.0.0       | R5-051161     |
| RP-29             | RP-050600     | 440 | -   | CR to 34.108: RRC CONNECTION SETUP exception for HSDPA testing                                                                                                                                                           | F   | 5.5.0           | 6.0.0       | R5-051430     |
| RP-29             | RP-050600     | 441 | -   | CR to 34.108: Correction to the RADIO BEARER SETUP message for HSDPA testing                                                                                                                                             | F   | 5.5.0           | 6.0.0       | R5-051112     |
| RP-29             | RP-050512     | 442 | -   | Changes to GPS Scenarios and Assistance data in TS 34.108                                                                                                                                                                | F   | 5.5.0           | 6.0.0       | R5-051076     |
| RP-29             | RP-050514     | 443 | -   | CR to 34.108 Rel-5: Correction of contents of RADIO BEARER SETUP message: AM or UM (1.28 Mcps TDD) in 9.2.2                                                                                                              | F   | 5.5.0           | 6.0.0       | R5-051212     |
| RP-29             | RP-050514     | 444 | -   | CR to 34.108 Rel-5: SIB default schedule in 6.1.0a - Default Master Information Block and Scheduling Block messages                                                                                                      | F   | 5.5.0           | 6.0.0       | R5-051213     |
| RP-29             | RP-050514     | 445 | -   | CR to 34.108 Rel-5: Corrections to the IE "Midamble shift and burst type" of System Information Block type 5/6 (3.84Mcps TDD) in section 6.1.0b                                                                          | F   | 5.5.0           | 6.0.0       | R5-051222     |
| RP-29             | RP-050514     | 446 | -   | CR to 34.108 Rel-5: Corrections to the contents of System Information Block type 5 (3.84 Mcps TDD) in section 6.1.1                                                                                                      | F   | 5.5.0           | 6.0.0       | R5-051344     |
| RP-29             | RP-050514     | 447 | -   | CR to 34.108 Rel-5: Corrections to the value of Sintrasearch and Sintersearch in "Cell selection and reselection quality measure" of System Information Block type 3/4 (1.28Mcps TDD and 3.84Mcps TDD) in section 6.1.0b | F   | 5.5.0           | 6.0.0       | R5-051536     |
| RP-29             | RP-050600     | 448 | -   | Use 'Same as UL' for the Added or Reconfigured DL TrCH information of the added or reconfigured PS RAB                                                                                                                   | F   | 5.5.0           | 6.0.0       | R5-051041     |
| RP-29             | RP-050600     | 449 | -   | Correction to the default contents for Radio Bearer Setup message                                                                                                                                                        | F   | 5.5.0           | 6.0.0       | R5-051044     |
| RP-29             | RP-050600     | 450 | -   | Corrections to default parameters of UL:384kbps PS Bearer                                                                                                                                                                | F   | 5.5.0           | 6.0.0       | R5-051058     |
| RP-29             | RP-050600     | 451 | -   | Correction to NB AMR Radio Bearer Configurations                                                                                                                                                                         | F   | 5.5.0           | 6.0.0       | R5-051318     |
| RP-29             | RP-050600     | 452 | -   | Correction to default contents of Cell Update and Initial Direct transfer message for Rel-5                                                                                                                              | F   | 5.5.0           | 6.0.0       | R5-051325     |
| RP-29             | RP-050600     | 453 | -   | Correction to DPCCH Power Offset IE in default contents for RRC Connection Setup and Radio Bearer Setup message                                                                                                          | F   | 5.5.0           | 6.0.0       | R5-051365     |
| RP-29             | RP-050515     | 454 | -   | Using Test USIM for VSTK generation of VGCS/VBS ciphering                                                                                                                                                                | B   | 5.5.0           | 6.0.0       | R5-051553     |
| RP-29             | RP-050600     | 455 | -   | Correction to default contents of RADIO BEARER SETUP MESSAGE for the IE "Number of Processes"                                                                                                                            | F   | 5.5.0           | 6.0.0       | R5-051324     |
| RP-29             | RP-050600     | 456 | -   | Correction of DL channelisation code in RADIO BEARER SETUP for HSDPA configurations                                                                                                                                      | F   | 5.5.0           | 6.0.0       | R5-051345     |
| RP-29             | RP-050513     | 457 | -   | Clarification of reference radio bearer configuration for MAC-hs test case 7.1.5.2.                                                                                                                                      | F   | 5.5.0           | 6.0.0       | R5-051164     |
| RP-29             | RP-050600     | 458 | -   | Replacement of the technical content of 34.108 Rel-5 by a pointer to Rel-6 document                                                                                                                                      | F   | 5.5.0           | 6.0.0       | R5-051584     |
| RP-29             | RP-050600     | 459 | -   | Introduction of HSDPA + Wideband AMR radio bearer combination                                                                                                                                                            | F   | 5.5.0           | 6.0.0       | R5-051588     |
| RP-29             | RP-050600     | 460 | -   | Feature Clean Up: Removal of DRAC from section 6 of 34.108                                                                                                                                                               | F   | 5.5.0           | 6.0.0       | R5-051311     |
| RP-30             | RP-050767     | 461 | -   | Correction to 34.108: RF Radio Bearer setup message for HSDPA testing                                                                                                                                                    | F   | 6.0.0           | 6.1.0       | R5-052320     |
| RP-30             | RP-050720     | 462 | -   | Changes, additions and corrections to GPS scenarios and assistance data in TS 34.108                                                                                                                                     | F   | 6.0.0           | 6.1.0       | R5-052017     |
| RP-30             | RP-050716     | 463 | -   | Generic test procedure for EDCH RF testing                                                                                                                                                                               | F   | 6.0.0           | 6.1.0       | R5-052345     |
| RP-30             | RP-050769     | 464 | -   | Correction of UE test states for RF testing.                                                                                                                                                                             | F   | 6.0.0           | 6.1.0       | R5-052302     |
| RP-30             | RP-050769     | 465 | -   | Removal of temporary BLER measurement                                                                                                                                                                                    | F   | 6.0.0           | 6.1.0       | R5-051933     |

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|                   |               |     |     | configuration                                                                                                                               |     |                 |             |               |
| RP-30             | RP-050780     | 466 | -   | Introduction of UMTS1700 for TS34.108                                                                                                       | B   | 6.0.0           | 6.1.0       | R5-052329     |
| RP-30             | RP-050767     | 467 | -   | Re-definition of reference radio bearer configuration for MAC-hs test case 7.1.5.2                                                          | F   | 6.0.0           | 6.1.0       | R5-051857     |
| RP-30             | RP-050767     | 468 | -   | Introduction of additional HSDPA radio bearer combination                                                                                   | F   | 6.0.0           | 6.1.0       | R5-052159     |
| RP-30             | RP-050717     | 469 | -   | CR to 34.108; Correction to default message content in INITIAL DIRECT TRANSFER                                                              | F   | 6.0.0           | 6.1.0       | R5-052179     |
| RP-30             | RP-050716     | 470 | -   | CR to 34.108 Rel-6; Generic Setup Procedure and Default RRC Messages for Enhanced Uplink Tests                                              | F   | 6.0.0           | 6.1.0       | R5-052192     |
| RP-30             | RP-050716     | 471 | -   | Generic reference bearer radio configurations for E-DCH testing                                                                             | F   | 6.0.0           | 6.1.0       | R5-052167     |
| RP-30             | RP-050716     | 472 | -   | Addition of basic radio bearer combinations for E-DCH testing                                                                               | F   | 6.0.0           | 6.1.0       | R5-052144     |
| RP-30             | RP-050718     | 473 | -   | CR to TS34.108; Correction to the default system information block type3 for DSAC                                                           | F   | 6.0.0           | 6.1.0       | R5-052145     |
| RP-30             | RP-050769     | 474 | -   | Editorial corrections to TS 34.108                                                                                                          | D   | 6.0.0           | 6.1.0       | R5-051840     |
| RP-30             | RP-050769     | 475 | -   | Removal of deprecated values from the default contents for RRC Connection Setup (Cell FACH) and RRC Connection Release (Cell DCH) messages. | F   | 6.0.0           | 6.1.0       | R5-051848     |
| RP-30             | RP-050769     | 476 | -   | Correction to the default RRC message contents for the IE "UARFCN uplink (Nu)"                                                              | F   | 6.0.0           | 6.1.0       | R5-052155     |
| RP-30             | RP-050769     | 477 | -   | Correction of references to IB UL:8 DL:8 kbps transport channel parameters in reference radio bearer configuration 6.10.2.4.1.58a           | F   | 6.0.0           | 6.1.0       | R5-051858     |
| RP-30             | RP-050769     | 478 | -   | Correction of UE states tables for Generic setup procedures.                                                                                | F   | 6.0.0           | 6.1.0       | R5-051942     |
| RP-30             | RP-050769     | 479 | -   | Corrections to default message contents of 'HANDOVER FROM UTRAN COMMAND-GSM' message.                                                       | F   | 6.0.0           | 6.1.0       | R5-051955     |
| RP-30             | RP-050776     | 480 | -   | Addition of multi-rate AMR-NB configuration with SRB#5                                                                                      | F   | 6.0.0           | 6.1.0       | R5-052176     |
| RP-30             | RP-050769     | 481 | -   | Proposed CR to 34.108 [R6 version, R99 affected] to change slot format for AMR 5.9 mono rate RAB                                            | F   | 6.0.0           | 6.1.0       | R5-052055     |
| RP-30             | RP-050769     | 482 | -   | Correction to puncturing limit in radio bearer configuration 6.10.2.4.1.38a                                                                 | F   | 6.0.0           | 6.1.0       | R5-052096     |
| RP-30             | RP-050777     | 483 | -   | Introduction of third RAB subflow to WB-AMR test configurations                                                                             | F   | 6.0.0           | 6.1.0       | R5-052140     |
| RP-30             | RP-050833     | 484 | -   | Correction to RADIO BEARER SETUP message for HSDPA RF testing                                                                               | F   | 6.0.0           | 6.1.0       | -             |
| RP-30             | RP-050832     | 485 | -   | Correction to test procedure for HSDPA RF testing                                                                                           | F   | 6.0.0           | 6.1.0       | -             |
|                   |               |     |     | 2006-01: Editorial conversion to make file compatible with Word 2000.                                                                       |     | 6.1.0           | 6.1.1       |               |
| RP-31             | RP-060154     | 486 | -   | Corrections to GPS data files for signalling tests.                                                                                         | F   | 6.1.1           | 6.2.0       | R5-060522     |
| RP-31             | RP-060163     | 487 | -   | Corrections for reference RABs                                                                                                              | F   | 6.1.1           | 6.2.0       | R5-060273     |
| RP-31             | RP-060144     | 488 | -   | Corrections to the RADIO BEARER SETUP message for Enhanced uplink                                                                           | F   | 6.1.1           | 6.2.0       | R5-060335     |
| RP-31             | RP-060150     | 489 | -   | Correction to default message content in INITIAL DIRECT TRANSFER                                                                            | F   | 6.1.0           | 6.2.0       | R5-060396     |
| RP-31             | RP-060154     | 490 | -   | Corrections to default message contents for signaling                                                                                       | F   | 6.1.1           | 6.2.0       | R5-060274     |
| RP-31             | RP-060163     | 491 | -   | Update of RB configuration 6.10.2.4.1.4b to increase test coverage for multi-mode AMR configurations                                        | F   | 6.1.1           | 6.2.0       | R5-060122     |
| RP-31             | RP-060144     | 492 | -   | Correction of UE RRC states table for common procedures (section 7.4.1)                                                                     | F   | 6.1.1           | 6.2.0       | R5-060268     |
| RP-31             | RP-060154     | 493 | -   | Correction to DPCCH power offset value in RADIO BEARER SETUP messages                                                                       | F   | 6.1.1           | 6.2.0       | R5-060459     |
| RP-31             | RP-060153     | 494 | -   | Introduction of Band VII and Band VIII to TS34.108 Chapter 5 and introduction of new UARFCN scheme                                          | F   | 6.1.1           | 6.2.0       | R5-060440     |
| RP-31             | RP-060154     | 495 | -   | Clarification of RB Test Mode State for RF testing                                                                                          | F   | 6.1.1           | 6.2.0       | R5-060446     |
| RP-31             | RP-060144     | 496 | -   | Common message content for E-DCH RF testing                                                                                                 | F   | 6.1.1           | 6.2.0       | R5-060439     |
| RP-31             | RP-060144     | 497 | -   | Generic test procedure for E-DCH RF testing                                                                                                 | F   | 6.1.1           | 6.2.0       | R5-060438     |
| RP-31             | RP-060166     | 498 | -   | Correction to GPS Assistance Data for Performance tests                                                                                     | F   | 6.1.1           | 6.2.0       | R5-060007     |
| RP-31             | RP-060154     | 499 | -   | Corrections to default message contents for RF                                                                                              | F   | 6.1.1           | 6.2.0       | R5-060257     |
| RP-31             | RP-060163     | 500 | -   | Adding of RB Configuration 6.11.4b to clause 6.11 to increase test coverage for Interactive or background PS RAB UL 0kbps/DL 0kbps.         | F   | 6.1.1           | 6.2.0       | R5-060571     |
| RP-32             | RP-060331     | 501 | -   | Addition of release information to A-GPS MEASUREMENT CONTROL message IEs                                                                    | F   | 6.2.0           | 6.3.0       | R5-061454     |
| RP-32             | RP-060331     | 502 | -   | Change to altitude of simulated UE position                                                                                                 | F   | 6.2.0           | 6.3.0       | R5-061410     |
| RP-32             | RP-060331     | 503 | -   | Clarification of A-GPS simulated satellites                                                                                                 | F   | 6.2.0           | 6.3.0       | R5-061223     |
| RP-32             | RP-060337     | 504 | -   | Clarification to loopback on HSDPA call set up procedure                                                                                    | F   | 6.2.0           | 6.3.0       | R5-061046     |

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| RP-32             | RP-060337     | 505 | -   | Removal of alternative procedure for HSDPA RF testing                                                          | F   | 6.2.0           | 6.3.0       | R5-061212     |
| RP-32             | RP-060337     | 506 | -   | Removal of alternative RB Setup message for HSDPA RF testing                                                   | F   | 6.2.0           | 6.3.0       | R5-061213     |
| RP-32             | RP-060338     | 507 | -   | CR for 34.108: Addition of RADIO BEARER SETUP default message contents for LCR TDD HSDPA RF testing            | F   | 6.2.0           | 6.3.0       | R5-061438     |
| RP-32             | RP-060332     | 508 | -   | Correction to RB setup message for E-DCH                                                                       | F   | 6.2.0           | 6.3.0       | R5-061443     |
| RP-32             | RP-060334     | 509 | -   | CR to 34.108: Addition of band IV to test frequencies for UMTS 1.7/2.1 GHz                                     | F   | 6.2.0           | 6.3.0       | R5-061188     |
| RP-32             | RP-060 336    | 510 | -   | Addition of radio bearer setup and release for HCR HSDPA testing to 34.108                                     | F   | 6.2.0           | 6.3.0       | R5-061148     |
| RP-32             | RP-060337     | 511 | -   | HS-SCCH and HS-PDSCH power levels in signaling tests                                                           | F   | 6.2.0           | 6.3.0       | R5-061207     |
| RP-32             | RP-060338     | 512 | -   | CR for 34.108: Addition of the combinations on DPCH and HS-PDSCH for LCR TDD                                   | F   | 6.2.0           | 6.3.0       | R5-061310     |
| RP-32             | RP-060338     | 513 | -   | CR for 34.108: Correction of RADIO BEARER SETUP default message contents for LCR TDD HSDPA                     | F   | 6.2.0           | 6.3.0       | R5-061053     |
| RP-32             | RP-060338     | 514 | -   | CR for 34.108: Correction of RADIO BEARER RELEASE default message contents for LCR TDD HSDPA                   | F   | 6.2.0           | 6.3.0       | R5-061054     |
| RP-32             | RP-060332     | 515 | -   | Corrections to the default RADIO BEARER SETUP message for Enhanced uplink                                      | F   | 6.2.0           | 6.3.0       | R5-061314     |
| RP-32             | RP-060332     | 516 | -   | Generalize E-DCH radio bearer names and correction to section numbering for 6.10.2.4.6.3.2.1.1.2.              | F   | 6.2.0           | 6.3.0       | R5-061315     |
| RP-32             | RP-060332     | 517 | -   | Addition of conversational radio bearer combinations for E-DCH/HS-DSCH testing                                 | F   | 6.2.0           | 6.3.0       | R5-061266     |
| RP-32             | RP-060332     | 518 | -   | E-HICH/E-RGCH and E-AGCH codes used in Radio Bearer Setup for signaling                                        | F   | 6.2.0           | 6.3.0       | R5-061386     |
| RP-32             | RP-060332     | 519 | -   | Introduction of additional WB-AMR RAB combination for E-DCH/HS-DSCH testing                                    | F   | 6.2.0           | 6.3.0       | R5-061339     |
| RP-32             | RP-060336     | 520 | -   | Addition of combinations on DPCH and HS-DSCH for HCR to 34.108                                                 | F   | 6.2.0           | 6.3.0       | R5-061149     |
| RP-32             | RP-060322     | 521 | -   | Corrections to the values for IE based on calculated ASN.1 value to 34.108 clause 9                            | F   | 6.2.0           | 6.3.0       | R5-061369     |
| RP-32             | RP-060328     | 522 | -   | CR to 34.108 Rel-6: Supplement to the UTRAN mobility information procedure in TDD                              | F   | 6.2.0           | 6.3.0       | R5-061392     |
| RP-32             | RP-060322     | 523 | -   | Correction to specific message contents for UE Capability Information confirm message                          | F   | 6.2.0           | 6.3.0       | R5-061139     |
| RP-32             | RP-060322     | 524 | -   | Corrections to the values for IE based on calculated ASN.1 value to 34.108 clause 6                            | F   | 6.2.0           | 6.3.0       | R5-061281     |
| RP-32             | RP-060322     | 525 | -   | Addition of a new section for downlink physical channels code allocation for signalling in FDD                 | F   | 6.2.0           | 6.3.0       | R5-061385     |
| RP-33             | RP-060560     | 526 | -   | Editorial changes in 34.108                                                                                    | F   | 6.3.0           | 6.4.0       | R5-062092     |
| RP-33             | RP-060549     | 527 | -   | CR to 34.108: Correction of reference test frequencies for UMTS800 (Band VI)                                   | F   | 6.3.0           | 6.4.0       | R5-062440     |
| RP-33             | RP-060549     | 528 | -   | Correction to SIB11 in 6.1                                                                                     | F   | 6.3.0           | 6.4.0       | R5-062427     |
| RP-33             | RP-060549     | 529 | -   | Correction to SECURITY MODE COMMAND message in 9.2.1                                                           | F   | 6.3.0           | 6.4.0       | R5-062403     |
| RP-33             | RP-060562     | 530 | -   | Correction to RB Setup default message for E-DCH RF testing                                                    | F   | 6.3.0           | 6.4.0       | R5-062208     |
| RP-33             | RP-060568     | 531 | -   | CR to 34.108: Correction the contents of RADIO BEARER SETUP message: AM or UM (1.28 Mcps TDD)                  | F   | 6.3.0           | 6.4.0       | R5-062511     |
| RP-33             | RP-060566     | 532 | -   | Addition of HSDPA cases to radio bearer setup and radio bearer release in section 9.1.2                        | F   | 6.3.0           | 6.4.0       | R5-062253     |
| RP-33             | RP-060567     | 533 | -   | Corrections to the default PHYSICAL CHANNEL RECONFIGURATION message                                            | F   | 6.3.0           | 6.4.0       | R5-062291     |
| RP-33             | RP-060567     | 534 | -   | Corrections to specification of HARQ RV sequence and retransmissions for 34.123-1 test cases configuring HSDPA | F   | 6.3.0           | 6.4.0       | R5-062544     |
| RP-33             | RP-060562     | 535 | -   | Corrections to the default RADIO BEARER SETUP message                                                          | F   | 6.3.0           | 6.4.0       | R5-062320     |
| RP-33             | RP-060562     | 536 | -   | New Test RABS for MAC-E/Es test cases                                                                          | F   | 6.3.0           | 6.4.0       | R5-062328     |
| RP-33             | RP-060562     | 537 | -   | Correction to radio bearer configuration 6.10.2.4.6 and 6.10.2.4.8                                             | F   | 6.3.0           | 6.4.0       | R5-062199     |
| RP-33             | RP-060562     | 538 | -   | Correction to 34.108 Section 9.1 : Corrections to Radio Bearer Setup for A12                                   | F   | 6.3.0           | 6.4.0       | R5-062348     |
| RP-33             | RP-060549     | 539 | -   | Clarification to section 6.10 and 6.11                                                                         | F   | 6.3.0           | 6.4.0       | R5-062194     |
| RP-33             | RP-060549     | 540 | -   | Correction to 34.108 Section 6.1 : Inclusion of System Information Block Type 5bis                             | F   | 6.3.0           | 6.4.0       | R5-062398     |
| RP-33             | RP-060549     | 541 | -   | Corrections to maximum data rate for combinations on PRACH (FDD)                                               | F   | 6.3.0           | 6.4.0       | R5-062350     |
| RP-34             | RP-060739     | 542 | -   | Assistance Data change for A-GPS Minimum                                                                       | F   | 6.4.0           | 6.5.0       | R5-063400     |

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|                   |               |     |     | Performance Test                                                                                                |     |                 |             |               |
| RP-34             | RP-060731     | 543 | -   | Correction to SECURITY MODE COMMAND message in 9.2.2                                                            | F   | 6.4.0           | 6.5.0       | R5-063296     |
| RP-34             | RP-060735     | 544 | -   | Addition of PAGING TYPE 2 message in 9.2                                                                        | F   | 6.4.0           | 6.5.0       | R5-063401     |
| RP-34             | RP-060731     | 545 | -   | Correction to RADIO BEARER SETUP message in 9.2                                                                 | F   | 6.4.0           | 6.5.0       | R5-063402     |
| RP-34             | RP-060743     | 546 | -   | Correction to the set of Reference E-TFCIs in RB Setup default message (RF)                                     | F   | 6.4.0           | 6.5.0       | R5-063233     |
| RP-34             | RP-060731     | 547 | -   | Correction the Default System Information Block type6 Messages in 6.1.0b                                        | F   | 6.4.0           | 6.5.0       | R5-063294     |
| RP-34             | RP-060743     | 548 | -   | CR to 34.108, correction of RADIO BEARER SETUP for EDCH                                                         | F   | 6.4.0           | 6.5.0       | R5-063545     |
| RP-34             | RP-060743     | 549 | -   | Correction to the set of Reference E-TFCIs in RB Setup default message (SIG)                                    | F   | 6.4.0           | 6.5.0       | R5-063240     |
| RP-34             | RP-060750     | 550 | -   | Introduction of radio bearers for MTCH                                                                          | F   | 6.4.0           | 6.5.0       | R5-063543     |
| RP-34             | RP-060749     | 551 | -   | Introduction of FDD interband testing in TS 34.108                                                              | F   | 6.4.0           | 6.5.0       | R5-063255     |
| RP-34             | RP-060735     | 552 | -   | Correction to Radio Bearer Setup message –Mac-hs reset indicator                                                | F   | 6.4.0           | 6.5.0       | R5-063339     |
| RP-34             | RP-060731     | 553 | -   | CR to 34.108, Add MCC value for Band VI test                                                                    | F   | 6.4.0           | 6.5.0       | R5-063340     |
| RP-34             | RP-060731     | 554 | -   | CR to 34.108, Modify MCC value in IMSI of test USIM for Band VI test                                            | F   | 6.4.0           | 6.5.0       | R5-063341     |
| RP-34             | RP-060731     | 555 | -   | Correction to default content for System Information Block Type 7                                               | F   | 6.4.0           | 6.5.0       | R5-063079     |
| RP-34             | RP-060731     | 556 | -   | Clarification of FDD test channels used for signaling test cases                                                | F   | 6.4.0           | 6.5.0       | R5-063260     |
| RP-35             | RP-070111     | 557 |     | 34.108 v6.6.0 pointer to Release 7 version                                                                      | F   | 6.5.0           | 7.0.0       | R5-070338     |
| RP-35             | RP-070105     | 558 |     | Correction of IE "DL UM RLC LI size" in RF default messages for HSDPA                                           | F   | 6.5.0           | 7.0.0       | R5-070548     |
| RP-35             | RP-070096     | 559 |     | Signalled Reference E-TFCIs for E-DCH RF tests                                                                  | F   | 6.5.0           | 7.0.0       | R5-070113     |
| RP-35             | RP-070096     | 560 |     | Correction to RB setup message used for E-DCH tests                                                             | F   | 6.5.0           | 7.0.0       | R5-070221     |
| RP-35             | RP-070096     | 561 |     | Correction of IE "DL UM RLC LI size" in RF default messages for E-DCH                                           | F   | 6.5.0           | 7.0.0       | R5-070549     |
| RP-35             | RP-070090     | 562 |     | Generic test procedure for MBMS RF test case                                                                    | F   | 6.5.0           | 7.0.0       | R5-070553     |
| RP-35             | RP-070094     | 563 |     | Introduction of FDD Mode Test frequencies for Operating Band X (Extended 1.7/2.1 GHz)                           | F   | 6.5.0           | 7.0.0       | R5-070160     |
| RP-35             | RP-070094     | 564 |     | Introduction of FDD Band X (Extended 1.7/2.1 GHz) to Contents of System Information Block type 5bis             | F   | 6.5.0           | 7.0.0       | R5-070161     |
| RP-35             | RP-070104     | 565 |     | Correction to contents of System Information Block type 5 (1.28 Mcps TDD)                                       | F   | 6.5.0           | 7.0.0       | R5-070109     |
| RP-35             | RP-070104     | 566 |     | Remove DCH information from RRC Connection Setup message to Cell_FACH state                                     | F   | 6.5.0           | 7.0.0       | R5-070353     |
| RP-35             | RP-070096     | 567 |     | Corrections to 34.108 Radio Bearer Setup Message: AM or UM                                                      | F   | 6.5.0           | 7.0.0       | R5-070038     |
| RP-35             | RP-070096     | 568 |     | Introduction of radio bearers for Stand-alone SRBs for DCCH on E-DCH and HS-DSCH                                | F   | 6.5.0           | 7.0.0       | R5-070356     |
| RP-35             | RP-070096     | 569 |     | Introduction of RRC Connection setup message for Stand-alone SRBs for DCCH on E-DCH and HS-DSCH                 | F   | 6.5.0           | 7.0.0       | R5-070357     |
| RP-35             | RP-070086     | 570 |     | MBMS test - MCCH configurations                                                                                 | F   | 6.5.0           | 7.0.0       | R5-070429     |
| RP-35             | RP-070086     | 571 |     | Generic setup procedures and default values for MBMS signalling testing                                         | F   | 6.5.0           | 7.0.0       | R5-070422     |
| RP-35             | RP-070086     | 572 |     | Introduction of signalling radio bearer for MCCH                                                                | F   | 6.5.0           | 7.0.0       | R5-070147     |
| RP-36             | RP-070360     | 573 |     | Definition of MCCH default message content                                                                      | F   | 7.0.0           | 7.1.0       | R5-071469     |
| RP-36             | RP-070354     | 574 |     | Addition of Additional Dynamic Transport Format Information for CCCH and Additional RACH TFCS for CCCH in SIB5  | F   | 7.0.0           | 7.1.0       | R5-071536     |
| RP-36             | RP-070354     | 575 |     | Remove MCC codes 440/441 for Band VI test                                                                       | F   | 7.0.0           | 7.1.0       | R5-071036     |
| RP-36             | RP-070350     | 576 |     | Modify the Physical channel parameters for HS-DSCH for 1.28 Mcps TDD.                                           | F   | 7.0.0           | 7.1.0       | R5-071119     |
| RP-36             | RP-070357     | 577 |     | Modification to RB setup message used for E-DCH test cases                                                      | F   | 7.0.0           | 7.1.0       | R5-071126     |
| RP-36             | RP-070357     | 578 |     | Correction to RB setup message used for E-DCH RF test cases                                                     | F   | 7.0.0           | 7.1.0       | R5-071127     |
| RP-36             | RP-070364     | 579 |     | Addition of 7.68 Mcps TDD TX diversity modes to 34.108 (section 6.7)                                            | F   | 7.0.0           | 7.1.0       | R5-071270     |
| RP-36             | RP-070364     | 580 |     | Addition of default message contents for RF tests (7.68Mcps TDD)                                                | F   | 7.0.0           | 7.1.0       | R5-071277     |
| RP-36             | RP-070364     | 581 |     | Addition of default message contents for signalling tests (7.68Mcps TDD)                                        | F   | 7.0.0           | 7.1.0       | R5-071278     |
| RP-36             | RP-070364     | 582 |     | Addition of default system information for 7,68 Mcps TDD to 34.108                                              | F   | 7.0.0           | 7.1.0       | R5-071279     |
| RP-36             | RP-070364     | 583 |     | Addition of default system information for 7,68Mcps TDD to 34.108 for SCCPCH configuration with Stand-alone SRB | F   | 7.0.0           | 7.1.0       | R5-071280     |

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| RP-36             | RP-070364     | 584 |     | Addition of Reference Radio Bearer configurations used in Radio Bearer testing for 7.68 Mcps TDD                    | F   | 7.0.0           | 7.1.0       | R5-071284     |
| RP-36             | RP-070364     | 585 |     | Addition Standard TDD reference test frequencies (7.68 Mcps option) to 34.108                                       | F   | 7.0.0           | 7.1.0       | R5-071287     |
| RP-36             | RP-070363     | 586 |     | Introduction of the generic test procedure for MBMS RF/RRM test cases                                               | F   | 7.0.0           | 7.1.0       | R5-071378     |
| RP-36             | RP-070350     | 587 |     | Adding Radio Bearer Configurations for LCR TDD HSDPA                                                                | F   | 7.0.0           | 7.1.0       | R5-071423     |
| RP-36             | RP-070344     | 588 |     | Clarification of two default values for IE Scrambling code change                                                   | F   | 7.0.0           | 7.1.0       | R5-071435     |
| RP-36             | RP-070356     | 589 |     | Editorial corrections in the reference list                                                                         | F   | 7.0.0           | 7.1.0       | R5-071443     |
| RP-36             | RP-070344     | 590 |     | Correction to the list of RAB combinations on DPCH and HS-PDSCH                                                     | F   | 7.0.0           | 7.1.0       | R5-071448     |
| RP-36             | RP-070360     | 591 |     | Introduce SIB scheduling and contents for MBMS test                                                                 | F   | 7.0.0           | 7.1.0       | R5-071458     |
| RP-36             | RP-070360     | 592 |     | Update to generic setup procedures and default values for MBMS signalling testing                                   | F   | 7.0.0           | 7.1.0       | R5-071459     |
| RP-36             | RP-070360     | 593 |     | Clarification of MBMS test case default behaviour                                                                   | F   | 7.0.0           | 7.1.0       | R5-071460     |
| RP-36             | RP-070360     | 594 |     | Downlink physical channels code allocation for MBMS test                                                            | F   | 7.0.0           | 7.1.0       | R5-071487     |
| RP-36             | RP-070354     | 595 |     | Changes to inclusion of Start Value in Cell Update Message from Rel-6                                               | F   | 7.0.0           | 7.1.0       | R5-071490     |
| RP-36             | RP-070354     | 596 |     | Addition of Additional Transport Format and TFCS for CCCH on RACH                                                   | F   | 7.0.0           | 7.1.0       | R5-071529     |
| RP-37             | RP-070600     | 597 | -   | UE performance requirements for high speed train                                                                    | F   | 7.1.0           | 7.2.0       | R5-072280     |
| RP-37             | RP-070596     | 598 | -   | CR to 34.108: New Requirements for Fast L1 Synchronization                                                          | F   | 7.1.0           | 7.2.0       | R5-072368     |
| RP-37             | RP-070609     | 600 | -   | Addition of MTCH and MCCH to combinations on SCCPCH for 3.84 Mcps TDD                                               | F   | 7.1.0           | 7.2.0       | R5-072296     |
| RP-37             | RP-070609     | 601 | -   | Addition of MTCH and MCCH to combinations on SCCPCH for 7.68 Mcps TDD                                               | F   | 7.1.0           | 7.2.0       | R5-072297     |
| RP-37             | RP-070604     | 602 | -   | Corrections of Test Procedures for MBMS Testing (IGMP and MLD)                                                      | F   | 7.1.0           | 7.2.0       | R5-072066     |
| RP-37             | RP-070604     | 603 | -   | Addition of RB combinations for PTP MBMS Testing                                                                    | F   | 7.1.0           | 7.2.0       | R5-072067     |
| RP-37             | RP-070604     | 604 | -   | Correction to default MBMS MCCH messages in 34.108                                                                  | F   | 7.1.0           | 7.2.0       | R5-072166     |
| RP-37             | RP-070596     | 605 | -   | Correction to SIB5 contents for additional RACH TFCS for CCCH                                                       | F   | 7.1.0           | 7.2.0       | R5-072186     |
| RP-37             | RP-070596     | 606 | -   | Correction to default RB combinations on PRACH for additional RACH TFCS for CCCH                                    | F   | 7.1.0           | 7.2.0       | R5-072187     |
| RP-37             | RP-070608     | 607 | -   | SIB5 configuration for MBMS RF/RRM generic procedure                                                                | F   | 7.1.0           | 7.2.0       | R5-072379     |
| RP-37             | RP-070604     | 608 | -   | Default message content for MBMS NEIGHBOURING CELL P-T-M RB INFORMATION                                             | F   | 7.1.0           | 7.2.0       | R5-072468     |
| RP-37             | RP-070604     | 609 | -   | Addition of PTP RB for MBMS                                                                                         | F   | 7.1.0           | 7.2.0       | R5-072521     |
| RP-37             | RP-070604     | 610 | -   | Addition of new SIB5 configuration to have MCCH mapped on to an S-CCPCH also used for non-MBMS purposes             | F   | 7.1.0           | 7.2.0       | R5-072469     |
| RP-37             | RP-070593     | 611 | -   | Addition of RB combination for RoHCTesting                                                                          | F   | 7.1.0           | 7.2.0       | R5-072520     |
| RP-37             | RP-070611     | 612 | -   | Introduce SIB scheduling and contents for LCR TDD MBMS test                                                         | F   | 7.1.0           | 7.2.0       | R5-072534     |
| RP-37             | RP-070611     | 613 | -   | Introduction of radio bearers of MTCH for LCR TDD MBMS test                                                         | F   | 7.1.0           | 7.2.0       | R5-072535     |
| RP-37             | RP-070604     | 614 | -   | Addition of MBMS PTP RB Setup message contents                                                                      | F   | 7.1.0           | 7.2.0       | R5-072496     |
| RP-37             | RP-070601     | 615 | -   | Introduction of F-DPCH Support Indicator                                                                            | F   | 7.1.0           | 7.2.0       | R5-072568     |
| RP-37             | RP-070612     | 616 | -   | Correction of HS-PDSCH for 64QAM Enhancement                                                                        | F   | 7.1.0           | 7.2.0       | R5-072559     |
| RP-37             | RP-070613     | 617 | -   | Correction of HS-PDSCH for MIMO Enhancement                                                                         | F   | 7.1.0           | 7.2.0       | R5-072560     |
| RP-37             | RP-070614     | 618 | -   | Correction of Maximum Data Rate for E-DPDCH                                                                         | F   | 7.1.0           | 7.2.0       | R5-072561     |
| RP-37             | RP-070609     | 620 | -   | Addition of message contents required for 3.84Mcps and 7.68Mcps TDD to the default messages contents for signalling | F   | 7.1.0           | 7.2.0       | R5-072295     |
| RP-37             | RP-070600     | 619 | -   | Production of 34.108 Rel-7 pointer version to point to Rel-8 of the spec                                            | F   | 7.1.0           | 7.2.0       | R5-072590     |
| RP-37             | RP-070599     | 599 | -   | Introduction of FDD Mode Test frequencies for Operating Band XI (UMTS1500)                                          | F   | 7.1.0           | 8.0.0       | R5-072273     |
| RP-38             | RP-070858     | 621 |     | Addition of exceptional messages for RF test procedure                                                              | F   | 8.0.0           | 8.1.0       | R5-073202     |
| RP-38             | RP-070869     | 622 |     | Correction to DL RLC PDU size in 9.2 for RB setup and RRC connection setup                                          | F   | 8.0.0           | 8.1.0       | R5-073203     |
| RP-38             | RP-070858     | 623 |     | Correction to DL RLC PDU size in 9.1 for RB setup and RRC connection setup                                          | F   | 8.0.0           | 8.1.0       | R5-073204     |
| RP-38             | RP-070863     | 624 |     | Addition of new IE to RRC connection setup message                                                                  | F   | 8.0.0           | 8.1.0       | R5-073390     |
| RP-38             | RP-070858     | 625 |     | Addition of test frequencies for low and high ranges for serving cell                                               | F   | 8.0.0           | 8.1.0       | R5-073311     |

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| RP-38             | RP-070877     | 626  |     | Update of generic setup procedure for MBMS RF/RRM testing                                                          | F   | 8.0.0           | 8.1.0       | R5-073300     |
| RP-38             | RP-070877     | 627  |     | Addition of specific message content for MBMS RF/RRM Testing                                                       | F   | 8.0.0           | 8.1.0       | R5-073342     |
| RP-38             | RP-070886     | 628  |     | Addition of combinations on HS-PDSCH and E-PUCH for 3.84Mcps TDD                                                   | F   | 8.0.0           | 8.1.0       | R5-073227     |
| RP-38             | RP-070879     | 629  |     | Addition of message contents required for 1.28Mcps TDD to the default messages contents for signalling             | F   | 8.0.0           | 8.1.0       | R5-073089     |
| RP-38             | RP-070887     | 630  |     | Update of the default RADIO BEARER SETUP message to support enhanced data rates                                    | F   | 8.0.0           | 8.1.0       | R5-073436     |
| RP-38             | RP-070887     | 631  |     | Update of radio bearer configuration for Enhanced Layer 2                                                          | F   | 8.0.0           | 8.1.0       | R5-073402     |
| RP-38             | RP-070887     | 632  |     | Introduction of new RB configuration to be used by MAC-ehs test cases                                              | F   | 8.0.0           | 8.1.0       | R5-073403     |
| RP-38             | RP-070871     | 633  |     | Correction conditions table for RADIO BEARER SETUP for MBMS PtP                                                    | F   | 8.0.0           | 8.1.0       | R5-073449     |
| RP-38             | RP-070871     | 634  |     | Update of generic setup procedure for MBMS protocol testing                                                        | F   | 8.0.0           | 8.1.0       | R5-073446     |
| RP-38             | RP-070871     | 635  |     | Correction to the SIB5 when MCCH mapped on to an S-CCPCH also used for non-MBMS purposes                           | F   | 8.0.0           | 8.1.0       | R5-073465     |
| RP-38             | RP-070871     | 636  |     | Corrections to MBMS specific message content and addition of MBMS ACCESS INFORMATION                               | F   | 8.0.0           | 8.1.0       | R5-073454     |
| RP-38             | RP-070858     | 637  |     | Addition of general SS requirements for UL and DL RF signal levels                                                 | F   | 8.0.0           | 8.1.0       | R5-073269     |
| RP-38             | RP-070858     | 638  |     | Correction to SIB1                                                                                                 | F   | 8.0.0           | 8.1.0       | R5-073418     |
| RP-38             | RP-070858     | 639  |     | Editorial moving the word "Default1" or "Default2" in the correct column                                           | F   | 8.0.0           | 8.1.0       | R5-073425     |
| RP-38             | RP-070858     | 640  |     | CR wrongly indicated to be to 34.108 and hence not implemented                                                     | -   | -               | -           | R5-073425     |
| RP-39             | RP-080095     | 0641 |     | Correction to RRC Connection setup and RB setup messages for 64kbps(Channel2)                                      | F   | 8.1.0           | 8.2.0       | R5-080247     |
| RP-39             | RP-080103     | 0642 |     | Addition of default message contents for MBMS RF/RRM testing                                                       | F   | 8.1.0           | 8.2.0       | R5-080149     |
| RP-39             | RP-080108     | 0643 |     | CR to 34.108: Introduction of the UE E-DCH 16-QAM feature                                                          | F   | 8.1.0           | 8.2.0       | R5-080118     |
| RP-39             | RP-080106     | 0644 |     | Addition of combinations on E-DCH to 6.11 of 34.108 for 3.84Mcps TDD                                               | F   | 8.1.0           | 8.2.0       | R5-080346     |
| RP-39             | RP-080106     | 0645 |     | Update of radio bearer setup in default message contents to include E-DCH conditions for 3.84Mcps and 7.68Mcps TDD | F   | 8.1.0           | 8.2.0       | R5-080350     |
| RP-39             | RP-080115     | 0646 |     | CR for 34.108:Correction of CELL UPDATE CONFIRM default message contents for LCR TDD EDCH                          | F   | 8.1.0           | 8.2.0       | R5-080099     |
| RP-39             | RP-080115     | 0647 |     | CR for 34.108:Correction of PHYSICAL CHANNEL RECONFIGURATION default message contents for LCR TDD EDCH             | F   | 8.1.0           | 8.2.0       | R5-080100     |
| RP-39             | RP-080115     | 0648 |     | CR for 34.108:Correction of RADIO BEARER RECONFIGURATION default message contents for LCR TDD EDCH                 | F   | 8.1.0           | 8.2.0       | R5-080101     |
| RP-39             | RP-080115     | 0649 |     | CR for 34.108:Correction of RADIO BEARER RELEASE default message contents for LCR TDD EDCH                         | F   | 8.1.0           | 8.2.0       | R5-080102     |
| RP-39             | RP-080115     | 0650 |     | CR for 34.108:Correction of RADIO BEARER SETUP default message contents for LCR TDD EDCH                           | F   | 8.1.0           | 8.2.0       | R5-080103     |
| RP-39             | RP-080115     | 0651 |     | CR for 34.108:Correction of TRANSPORT CHANNEL RECONFIGURATION default message contents for LCR TDD EDCH            | F   | 8.1.0           | 8.2.0       | R5-080104     |
| RP-39             | RP-080115     | 0652 |     | Correction to the contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (1.28 Mcps TDD option)     | F   | 8.1.0           | 8.2.0       | R5-080190     |
| RP-39             | RP-080108     | 0653 |     | Introduction of Default Radio Bearer Setup message contents for UL 16QAM                                           | F   | 8.1.0           | 8.2.0       | R5-080480     |
| RP-39             | RP-080107     | 0654 |     | Addition of HARQ transmission parameters for 64QAM                                                                 | F   | 8.1.0           | 8.2.0       | R5-080482     |
| RP-39             | RP-080109     | 0655 |     | Update of the default RADIO BEARER SETUP message to support enhanced data rates                                    | F   | 8.1.0           | 8.2.0       | R5-080531     |
| RP-39             | RP-080109     | 0656 |     | Addition of enhanced L2 configurations for DL SRBs on HS                                                           | F   | 8.1.0           | 8.2.0       | R5-080287     |
| RP-39             | RP-080109     | 0657 |     | Correction of physical layer parameters for radio bearer configuration 6.10.2.4.5 and HSPA                         | F   | 8.1.0           | 8.2.0       | R5-080289     |
| RP-39             | RP-080109     | 0658 |     | Addition of enhanced L2 configurations to conversational UM PS radio bearer 6.10.2.4.6.6                           | F   | 8.1.0           | 8.2.0       | R5-080484     |
| RP-39             | RP-080111     | 0659 |     | Addition of RB setup message contents for CPC                                                                      | F   | 8.1.0           | 8.2.0       | R5-080512     |
| RP-39             | RP-080105     | 0660 |     | Addition of HARQ transmission parameters for MIMO                                                                  | F   | 8.1.0           | 8.2.0       | R5-080519     |
| RP-39             | RP-080095     | 0661 |     | Correction to RB identity in RRC Connection Setup                                                                  | F   | 8.1.0           | 8.2.0       | R5-080036     |



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| RP-39             | RP-080095     | 0662 |     | Addition of new RB Combination for MBMS Testing                                                                 | F   | 8.1.0           | 8.2.0       | R5-080600     |
| RP-39             | RP-080095     | 0663 |     | Corrections to default content of MBMS GENERAL INFORMATION message                                              | F   | 8.1.0           | 8.2.0       | R5-080160     |
| RP-39             | RP-080095     | 0664 |     | Correction to MBMS selected service test procedure for MBMS Modification Request message                        | F   | 8.1.0           | 8.2.0       | R5-080521     |
| RP-39             | RP-080109     | 0665 |     | Update of the default RRC CONNECTION SETUP message to support enhanced data rates                               | F   | 8.1.0           | 8.2.0       | R5-080523r1   |
| RP-40             | RP-080372     | 0666 |     | CR to 34.108: Correction to Contents of RADIO BEARER SETUP message: AM or UM (E-DCH and HSDPA) for 16QAM        | F   | 8.2.0           | 8.3.0       | R5-081140     |
| RP-40             | RP-080370     | 0667 |     | CR to 34.108: Introduction of Operating Bands XII XIII and XIV (UMTS700 MHz)                                    | F   | 8.2.0           | 8.3.0       | R5-081150     |
| RP-40             | RP-080364     | 0668 |     | Correction to RRC Connection setup messages for 64kbps(Channel2)                                                | F   | 8.2.0           | 8.3.0       | R5-081435     |
| RP-40             | RP-080364     | 0669 |     | Additional IEs for 7.8.4 of 34.121-1                                                                            | F   | 8.2.0           | 8.3.0       | R5-081436     |
| RP-40             | RP-080364     | 0670 |     | Additional test procedure for HSDPA with F-DPCH RF Performance Requirement for 7.8.5 of 34.121-1                | F   | 8.2.0           | 8.3.0       | R5-081279     |
| RP-40             | RP-080364     | 0671 |     | Additional RB setup message for 7.8.5 of 34.121-1                                                               | F   | 8.2.0           | 8.3.0       | R5-081280     |
| RP-40             | RP-080371     | 0672 |     | Update of radio bearer setup in default message contents to include E-DCH conditions for 3.84Mcps TDD           | F   | 8.2.0           | 8.3.0       | R5-081336     |
| RP-40             | RP-080377     | 0673 |     | CR for 34.108: Baseline radio bearer combination for LCR TDD EDCH                                               | F   | 8.2.0           | 8.3.0       | R5-081116     |
| RP-40             | RP-080379     | 0674 |     | Addition of MBSFN RABs and Signalling RB for 3.84 Mcps TDD                                                      | F   | 8.2.0           | 8.3.0       | R5-081034     |
| RP-40             | RP-080379     | 0675 |     | Addition of MBSFN RABs and Signalling RB for 7.68 Mcps TDD                                                      | F   | 8.2.0           | 8.3.0       | R5-081035     |
| RP-40             | RP-080379     | 0676 |     | Initial additions to common test environment definition for HCR and VHCR TDD MBSFN                              | F   | 8.2.0           | 8.3.0       | R5-081039     |
| RP-40             | RP-080363     | 0677 |     | Clarification of TDD test channels used for signaling test cases                                                | F   | 8.2.0           | 8.3.0       | R5-081354     |
| RP-40             | RP-080373     | 0678 |     | Addition of new Test Bearer for MAC CPC testing                                                                 | F   | 8.2.0           | 8.3.0       | R5-081219     |
| RP-40             | RP-080373     | 0679 |     | CPC: Corrections to Radio Bearer Setup message contents for conditions A20 A21                                  | F   | 8.2.0           | 8.3.0       | R5-081388     |
| RP-40             | RP-080365     | 0680 |     | Update of radio bearer configurations for HSPA                                                                  | F   | 8.2.0           | 8.3.0       | R5-081194     |
| RP-40             | RP-080364     | 0681 |     | Correction to the Contents of RADIO BEARER SETUP message: AM or UM for MBMS PtP Radio Bearer Setup              | F   | 8.2.0           | 8.3.0       | R5-081205     |
| RP-40             | RP-080365     | 0682 |     | Addition of new Test Bearer for MAC-ehs testing                                                                 | F   | 8.2.0           | 8.3.0       | R5-081218     |
| RP-40             | RP-080365     | 0683 |     | Addition of new Test Bearer for Improved L2 testing                                                             | F   | 8.2.0           | 8.3.0       | R5-081220     |
| RP-40             | RP-080365     | 0684 |     | Corrections to the default RADIO BEARER SETUP message                                                           | F   | 8.2.0           | 8.3.0       | R5-081393     |
| RP-40             | RP-080364     | 0685 |     | Correction to RB Combination for MBMS Testing                                                                   | F   | 8.2.0           | 8.3.0       | R5-081298     |
| RP-40             | RP-080364     | 0686 |     | Removal of MBMS dispersion indicator in default message content                                                 | F   | 8.2.0           | 8.3.0       | R5-081508     |
| RP-41             | RP-080561     | 0687 |     | Addition of combinations on HS-DSCH and E-PUCH to typical radio parameter sets for 7.68Mcps TDD                 | F   | 8.3.0           | 8.4.0       | R5-083075     |
| RP-41             | RP-080568     | 0688 |     | Simulated network environment description for MBSFN tests                                                       | F   | 8.3.0           | 8.4.0       | R5-083105     |
| RP-41             | RP-080568     | 0689 |     | Add default SIB configuration for 3.84 and 7.68 Mcps TDD MBSFN                                                  | F   | 8.3.0           | 8.4.0       | R5-083106     |
| RP-41             | RP-080568     | 0690 |     | Add default MCCH configurations for 3.84 Mcps and 7.68 Mcps TDD MBSFN                                           | F   | 8.3.0           | 8.4.0       | R5-083107     |
| RP-41             | RP-080568     | 0691 |     | Default MBMS RRC message contents for 3.84 and 7.68 Mcps TDD MBSFN                                              | F   | 8.3.0           | 8.4.0       | R5-083108     |
| RP-41             | RP-080568     | 0692 |     | Radio Bearer configurations for 7bit and 15bit UM RLC TCs for HCR and VHCR TDD MBSFN                            | F   | 8.3.0           | 8.4.0       | R5-083109     |
| RP-41             | RP-080557     | 0693 |     | Corrections to the default RADIO BEARER SETUP message for condition A22                                         | F   | 8.3.0           | 8.4.0       | R5-083179     |
| RP-41             | RP-080570     | 0694 |     | Correction of HS-PDSCH for 64QAM Enhancement                                                                    | F   | 8.3.0           | 8.4.0       | R5-083314     |
| RP-41             | RP-080554     | 0695 |     | Correction to Contents of default RADIO BEARER SETUP messages                                                   | F   | 8.3.0           | 8.4.0       | R5-083336     |
| RP-41             | RP-080557     | 0696 |     | Corrections to 34.108: Radio access bearer establishment procedure for packet switched sessions (procedure P26) | F   | 8.3.0           | 8.4.0       | R5-083338     |
| RP-41             | RP-080557     | 0697 |     | Corrections to Radio Bearer Setup message for Rel-7                                                             | F   | 8.3.0           | 8.4.0       | R5-083340     |
| RP-41             | RP-080557     | 0698 |     | Corrections to RRC Connection Setup message for Rel-7                                                           | F   | 8.3.0           | 8.4.0       | R5-083341     |
| RP-41             | RP-080557     | 0699 |     | New Radio Bearer Combination for testing flexible size SRB in 8.2.2.57                                          | F   | 8.3.0           | 8.4.0       | R5-083342     |
| RP-41             | RP-080567     | 0700 |     | New Radio Bearer Combinations for CS over HSPA                                                                  | F   | 8.3.0           | 8.4.0       | R5-083360     |
| RP-41             | RP-080568     | 0701 |     | Add setup test procedures and Access Control Class settings for MBSFN MBMS testing                              | F   | 8.3.0           | 8.4.0       | R5-083441     |

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| RP-41             | RP-080555     | 0702 |     | Correction to uplink beta factors in default messages                                                                                               | F   | 8.3.0           | 8.4.0       | R5-083566     |
| RP-41             | RP-080567     | 0703 |     | New Radio Bearer Setup message contents for CS-HSPA RABS                                                                                            | F   | 8.3.0           | 8.4.0       | R5-083591     |
| RP-41             | RP-080570     | 0704 |     | Correction of HS-PDSCH physical layer categories for LCR TDD 64QAM Enhancement                                                                      | F   | 8.3.0           | 8.4.0       | R5-083645     |
| RP-41             | RP-080561     | 0705 |     | Addition of radio bearer set-up default messages for RF testing for E-DCH and HSDPA operation for 3.84Mcps TDD and 7.68Mcps TDD                     | F   | 8.3.0           | 8.4.0       | R5-083825     |
| RP-42             | RP-080954     | 0706 |     | Correction to E-RGCH Info in Radio Bearer Setup                                                                                                     | F   | 8.4.0           | 8.5.0       | R5-085037     |
| RP-42             | RP-080952     | 0707 |     | Correction to System Information Block type 11                                                                                                      | F   | 8.4.0           | 8.5.0       | R5-085039     |
| RP-42             | RP-080964     | 0708 |     | Addition of Elementary Files (EFs) needed in Network Selection Enhancements tests                                                                   | F   | 8.4.0           | 8.5.0       | R5-085064     |
| RP-42             | RP-080968     | 0709 |     | Addition of MBSFN RABs and Signalling RB for 1.28 Mcps TDD                                                                                          | F   | 8.4.0           | 8.5.0       | R5-085130     |
| RP-42             | RP-080968     | 0710 |     | Simulated network environment description for MBSFN tests                                                                                           | F   | 8.4.0           | 8.5.0       | R5-085131     |
| RP-42             | RP-080968     | 0711 |     | Default MBMS RRC message contents for LCR TDD MBSFN                                                                                                 | F   | 8.4.0           | 8.5.0       | R5-085132     |
| RP-42             | RP-080954     | 0712 |     | Correction to A9 condition in RB set-up message                                                                                                     | F   | 8.4.0           | 8.5.0       | R5-085230     |
| RP-42             | RP-080967     | 0713 |     | Introduction of radio bearer parameters for Improved L2 UL                                                                                          | F   | 8.4.0           | 8.5.0       | R5-085422     |
| RP-42             | RP-080956     | 0714 |     | Addition of Rel-7 IEs to default messages specified in 34.108                                                                                       | F   | 8.4.0           | 8.5.0       | R5-085424     |
| RP-42             | RP-080956     | 0715 |     | Correction of UL DPPCH slot format for default Radio Bearer Setup message for DTX/DRX                                                               | F   | 8.4.0           | 8.5.0       | R5-085425     |
| RP-42             | RP-080954     | 0716 |     | Addition of RF E-DCH test procedure for E-DPDCH with 2SF2+2SF4                                                                                      | F   | 8.4.0           | 8.5.0       | R5-085726     |
| RP-42             | RP-080954     | 0717 |     | Correction to Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)                                                                              | F   | 8.4.0           | 8.5.0       | R5-085727     |
| RP-43             | RP-090203     | 0718 | -   | Correction to E-DCH Transmission Time Interval                                                                                                      | F   | 8.5.0           | 8.6.0       | R5-090167     |
| RP-43             | RP-090203     | 0719 | -   | Correction to Radio Bearer Setup message ( A17 & A18)                                                                                               | F   | 8.5.0           | 8.6.0       | R5-090168     |
| RP-43             | RP-090216     | 0720 | -   | Addition 1.28 Mcps TDD contents in 6.11.5                                                                                                           | F   | 8.5.0           | 8.6.0       | R5-090312     |
| RP-43             | RP-090203     | 0721 | -   | Correction to the default RADIO BEARER SETUP message for condition A22                                                                              | F   | 8.5.0           | 8.6.0       | R5-090313     |
| RP-43             | RP-090203     | 0722 | -   | Correction 1.28 Mcps TDD default RADIO BEARER SETUP message in 9.1.2                                                                                | F   | 8.5.0           | 8.6.0       | R5-090314     |
| RP-43             | RP-090216     | 0723 | -   | Addition 1.28 Mcps TDD contents in 9.1.3                                                                                                            | F   | 8.5.0           | 8.6.0       | R5-090316     |
| RP-43             | RP-090217     | 0724 | -   | Supported Channels for MBSFN FDD                                                                                                                    | F   | 8.5.0           | 8.6.0       | R5-090368     |
| RP-43             | RP-090217     | 0725 | -   | Simulated network environment for MBSFN FDD                                                                                                         | F   | 8.5.0           | 8.6.0       | R5-090369     |
| RP-43             | RP-090217     | 0726 | -   | Generic test procedure for MBSFN FDD                                                                                                                | F   | 8.5.0           | 8.6.0       | R5-090371     |
| RP-43             | RP-090217     | 0727 | -   | MBSFN FDD configurations for signalling test                                                                                                        | F   | 8.5.0           | 8.6.0       | R5-090373     |
| RP-43             | RP-090215     | 0728 | -   | Introduction of radio bearer parameters for testing Improved L2 UL                                                                                  | F   | 8.5.0           | 8.6.0       | R5-090445     |
| RP-43             | RP-090212     | 0729 | -   | RRC Connection Setup Default Message for HS-DSCH Reception in CELL_FACH state                                                                       | F   | 8.5.0           | 8.6.0       | R5-090452     |
| RP-43             | RP-090212     | 0730 | -   | New Default SIB5/SIB5bis for Enhanced CELL_FACH                                                                                                     | F   | 8.5.0           | 8.6.0       | R5-090456     |
| RP-43             | RP-090212     | 0731 | -   | Addition of Radio Bearer Setup Condition for Enhanced CELL_FACH                                                                                     | F   | 8.5.0           | 8.6.0       | R5-090459     |
| RP-43             | RP-090203     | 0732 | -   | Addition of Rel-7 IE's to RRConnectionRequest and correction to Rel-7 IEs for Cell update and URA update under default messages specified in 34.108 | F   | 8.5.0           | 8.6.0       | R5-090465     |
| RP-43             | RP-090203     | 0733 | -   | Addition of Code Tree Allocation Table for 64QAM HSDPA Test Cases                                                                                   | F   | 8.5.0           | 8.6.0       | R5-090466     |
| RP-43             | RP-090203     | 0734 | -   | Correction to Radio Bearer Setup for 64QAM test cases                                                                                               | F   | 8.5.0           | 8.6.0       | R5-090467     |
| RP-43             | RP-090215     | 0735 | -   | Additions to the default RRC messages for improved L2 in uplink                                                                                     | F   | 8.5.0           | 8.6.0       | R5-090559     |
| RP-43             | RP-090218     | 0736 | -   | Addition of radio bearer parameters for UE HS-DSCH Physical Layer category 19 and 20                                                                | F   | 8.5.0           | 8.6.0       | R5-090562     |

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| RP-43             | RP-090203     | 0737 | -   | Correction of radio bearer parameters for UE HS-DSCH Physical Layer category 15 and 18                                                              | F   | 8.5.0           | 8.6.0       | R5-090563     |
| RP-43             | RP-090203     | 0738 | -   | Correction to the RAB Setup for CS over HSPA (A23 set of parameters) in 34.108                                                                      | F   | 8.5.0           | 8.6.0       | R5-090564     |
| RP-43             | RP-090215     | 0739 | 2   | Update of Radio Bearer Configurations for flexible RLC                                                                                              | F   | 8.5.0           | 8.6.0       | R5-090727     |
| RP-43             | RP-090212     | 0740 | -   | Introduction of radio bearer parameters for testing HS-DSCH Reception in CELL_FACH                                                                  | F   | 8.5.0           | 8.6.0       | R5-090728     |
| RP-44             | RP-090443     | 0741 | -   | Addition of MBSFN IDLE and MCCH configurations for LCR TDD MBSFN in 34.108                                                                          | F   | 8.6.0           | 8.7.0       | R5-092119     |
| RP-44             | RP-090443     | 0742 | -   | Addition of default SIB for LCR TDD MBSFN in 34.108                                                                                                 | F   | 8.6.0           | 8.7.0       | R5-092120     |
| RP-44             | RP-090445     | 0743 | -   | "6.4.1.1 - Correction to SIB5 Default Message for HS-DSCH Reception in CELL_FACH"                                                                   | F   | 8.6.0           | 8.7.0       | R5-092222     |
| RP-44             | RP-090443     | 0744 | -   | New Radio Bearer Configurations for 1.28TDD 64QAM                                                                                                   | F   | 8.6.0           | 8.7.0       | R5-092318     |
| RP-44             | RP-090433     | 0745 | -   | Correction to Radio Bearer Setup message contents (A17a)                                                                                            | F   | 8.6.0           | 8.7.0       | R5-092537     |
| RP-44             | RP-090445     | 0746 | -   | Correction to RRC Connection Setup Default Message for HS-DSCH Reception in CELL_FACH state                                                         | F   | 8.6.0           | 8.7.0       | R5-092544     |
| RP-44             | RP-090445     | 0747 | -   | Correction to Radio Bearer Setup Condition for Enhanced CELL_FACH state                                                                             | F   | 8.6.0           | 8.7.0       | R5-092545     |
| RP-44             | RP-090433     | 0748 | -   | Update to Channelisation code allocation for 64QAM                                                                                                  | F   | 8.6.0           | 8.7.0       | R5-092728     |
| RP-44             | RP-090598     | 0749 | -   | Addition of Test frequencies in FDD Mode Operating Band XIX (Extended UMTS 800)                                                                     | F   | 8.6.0           | 8.7.0       | R5-092792     |
| RP-44             | RP-090795     | 0750 | -   | Introduction of two new SIBs configurations in UTRA cell for interRAT LTE test                                                                      | F   | 8.7.0           | 8.8.0       | R5-094071     |
| RP-44             | RP-090811     | 0751 | -   | Update of the default RADIO BEARER SETUP message to support enhanced data rates for LCR TDD                                                         | F   | 8.7.0           | 8.8.0       | R5-094269     |
| RP-44             | RP-090803     | 0752 | -   | Correction RAB definition for LCR TDD MBSFN in 34108                                                                                                | F   | 8.7.0           | 8.8.0       | R5-094270     |
| RP-44             | RP-090809     | 0753 | -   | Correction to RAB configuration for Enhanced CELL_FACH                                                                                              | F   | 8.7.0           | 8.8.0       | R5-094443     |
| RP-44             | RP-090809     | 0754 | -   | Correction to RRC Connection setup for HS-DSCH reception in CELL_FACH                                                                               | F   | 8.7.0           | 8.8.0       | R5-094445     |
| RP-44             | RP-090809     | 0755 | -   | Correction to SIB5 for Enhanced CELL_FACH                                                                                                           | F   | 8.7.0           | 8.8.0       | R5-094446     |
| RP-44             | RP-090809     | 0756 | -   | Correction to Radio Bearer Setup for HS-DSCH reception in CELL_FACH                                                                                 | F   | 8.7.0           | 8.8.0       | R5-094447     |
| RP-44             | RP-090799     | 0757 | -   | Correction to Radio Bearer Configuration for Improved L2 UL Testing                                                                                 | F   | 8.7.0           | 8.8.0       | R5-094455     |
| RP-44             | RP-090808     | 0758 | -   | Inclusion of common E-DCH info in SIB5(bis) to be used by new Enh-UL for CELL_FACH test cases                                                       | F   | 8.7.0           | 8.8.0       | R5-094459     |
| RP-44             | RP-090794     | 0759 | -   | Update to Channelisation code allocation for E-DCH and 64QAM                                                                                        | F   | 8.7.0           | 8.8.0       | R5-094464     |
| RP-44             | RP-090794     | 0760 | -   | Addition of Radio Bearer Setup Conditions for establishing radio bearers mapped onto E-DCH/HS-DSCH (MAC-ehs) for 64QAM and non 64QAM configurations | F   | 8.7.0           | 8.8.0       | R5-094467     |
| RP-44             | RP-090803     | 0761 | -   | Correction the number in section 11.2 in 34108                                                                                                      | F   | 8.7.0           | 8.8.0       | R5-094511     |
| RP-44             | RP-090795     | 0762 | -   | Correction to RB setup message for CS over HSPA                                                                                                     | F   | 8.7.0           | 8.8.0       | R5-094625     |
| RP-44             | RP-090794     | 0763 | -   | Correction to Default Message contents of Radio Bearer Setup for A22                                                                                | F   | 8.7.0           | 8.8.0       | R5-094646     |
| RP-44             | RP-090791     | 0764 | -   | Update of 9.2 Default RF Messages                                                                                                                   | F   | 8.7.0           | 8.8.0       | R5-094744     |
| RP-44             | RP-090812     | 0765 | -   | MBSFN RABs and Signalling RB for 3.84 Mcps TDD IMB                                                                                                  | F   | 8.7.0           | 8.8.0       | R5-094856     |
| RP-44             | RP-090812     | 0766 | -   | Default MBMS RRC message contents for 3.84 Mcps TDD IMB                                                                                             | F   | 8.7.0           | 8.8.0       | R5-094857     |
| RP-44             | RP-090812     | 0767 | -   | Default MCCH configurations for 3.84 Mcps TDD IMB                                                                                                   | F   | 8.7.0           | 8.8.0       | R5-094858     |
| RP-44             | RP-090812     | 0768 | -   | Radio Bearer configurations for 7bit and 15bit UM RLC TCs for 3.84 Mcps TDD IMB                                                                     | F   | 8.7.0           | 8.8.0       | R5-094859     |
| RP-44             | RP-090812     | 0769 | -   | Reference radio condition for 3.84 Mcps TDD IMB                                                                                                     | F   | 8.7.0           | 8.8.0       | R5-094860     |
| RP-44             | RP-090812     | 0770 | -   | Reference test condition for MBSFN 3.84 Mcps TDD IMB                                                                                                | F   | 8.7.0           | 8.8.0       | R5-094861     |
| RP-44             | RP-090812     | 0771 | -   | Default SIB configuration for 3.84 Mcps TDD IMB                                                                                                     | F   | 8.7.0           | 8.8.0       | R5-094862     |

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| RP-44             | RP-090812     | 0772 | -   | Supported Channels for MBSFN 3.84 Mcps TDD IMB                                                                                                   | F   | 8.7.0           | 8.8.0       | R5-094863     |
| RP-44             | RP-090809     | 0773 | -   | New RF procedure for HSDPA in CELL_FACH                                                                                                          | F   | 8.7.0           | 8.8.0       | R5-094984     |
| RP-44             | RP-090793     | 0774 | -   | CR to 34.108: Addition of RADIO BEARER SETUP condition for test case 5.2B in 34.121-1                                                            | F   | 8.7.0           | 8.8.0       | R5-094994     |
| RP-44             | RP-090794     | 0775 | -   | addition of the Standard TDD reference test frequencies                                                                                          | F   | 8.7.0           | 8.8.0       | R5-095013     |
| RP-44             | RP-090794     | 0776 | -   | correction of RADIO BEARER SETUP message default content                                                                                         | F   | 8.7.0           | 8.8.0       | R5-095014     |
| RP-44             | RP-090791     | 0777 | -   | Addition of section 6.1.4.1a: Default Cell parameters Two PLMN in UTRAN test scenario with cells on PLMN1 belonging to two different frequencies | F   | 8.7.0           | 8.8.0       | R5-095026     |
| RP-44             | RP-090805     | 0778 | -   | Update of the default RADIO BEARER SETUP message (FDD) for support of Dual Carrier Adjacent Channels for HSDPA                                   | F   | 8.7.0           | 8.8.0       | R5-095062     |
| RP-44             | RP-090794     | 0779 | -   | Update of the default RADIO BEARER SETUP message (FDD) for an additional RB combination                                                          | F   | 8.7.0           | 8.8.0       | R5-095063     |
| RP-44             | RP-090800     | 0780 | -   | Update of the default RADIO BEARER SETUP message (FDD) for support of 64QAM+MIMO for HSDPA                                                       | F   | 8.7.0           | 8.8.0       | R5-095128     |
| RP-44             | RP-090799     | 0781 | -   | Addition of Default Radio Bearer Conditions for Improved L2 UL MAC test cases                                                                    | F   | 8.7.0           | 8.8.0       | R5-095130     |
| RP-45             | RP-091124     | 0782 | -   | Addition of radio bearer parameters for UE HS-DSCH Physical Layer category 21, 22, 23 and 24 (Dual Cell)                                         | F   | 8.8.0           | 8.9.0       | R5-095605     |
| RP-45             | RP-091118     | 0783 | -   | Corrections to the default RRC CONNECTION SETUP message                                                                                          | F   | 8.8.0           | 8.9.0       | R5-095646     |
| RP-45             | RP-091130     | 0784 | -   | Default SIB configuration for 3.84 Mcps TDD IMB                                                                                                  | F   | 8.8.0           | 8.9.0       | R5-095698     |
| RP-45             | RP-091130     | 0785 | -   | MBSFN service availability for 3.84 Mcps TDD IMB                                                                                                 | F   | 8.8.0           | 8.9.0       | R5-095699     |
| RP-45             | RP-091130     | 0786 | -   | Reference radio condition for 3.84 Mcps TDD IMB                                                                                                  | F   | 8.8.0           | 8.9.0       | R5-095700     |
| RP-45             | RP-091135     | 0787 | -   | Introduction of MIMO in Typical radio parameter sets for 1.28Mcps TDD                                                                            | F   | 8.8.0           | 8.9.0       | R5-095882     |
| RP-45             | RP-091123     | 0788 | -   | Update 5.5.1.4 for MBSFN TC Reference test conditions                                                                                            | F   | 8.8.0           | 8.9.0       | R5-095945     |
| RP-45             | RP-091118     | 0789 | -   | Inclusion of common HS-DSCH and E-DCH info in SIB5 to be used by new enhanced CELL_FACH test cases for LCR TDD                                   | F   | 8.8.0           | 8.9.0       | R5-095957     |
| RP-45             | RP-091129     | 0790 | -   | Addition Reference Radio Bearer configurations used in MAC-ehs and MAC-i/is testing for LCR TDD                                                  | F   | 8.8.0           | 8.9.0       | R5-095958     |
| RP-45             | RP-091115     | 0791 | -   | Editorial correction in clause 8.1.2.1                                                                                                           | F   | 8.8.0           | 8.9.0       | R5-096049     |
| RP-45             | RP-091117     | 0792 | -   | Correction of RADIO BEARER SETUP for 5.2B                                                                                                        | F   | 8.8.0           | 8.9.0       | R5-096052     |
| RP-45             | RP-091119     | 0794 | -   | Correction to condition A27 for Improved L2 UL Testing and generic table formatting                                                              | F   | 8.8.0           | 8.9.0       | R5-096150     |
| RP-45             | RP-091119     | 0795 | -   | Correction to Default Radio Bearer Conditions for Improved L2 UL RLC AM test cases                                                               | F   | 8.8.0           | 8.9.0       | R5-096153     |
| RP-45             | RP-091128     | 0796 | 1   | Correction to Default message contents                                                                                                           | F   | 8.8.0           | 8.9.0       | R5-096171     |
| RP-45             | RP-091119     | 0797 | -   | Align USIM content to the latest REI-8 USIM files                                                                                                | F   | 8.8.0           | 8.9.0       | R5-096180     |
| RP-45             | RP-091124     | 0798 | -   | Update of the default RADIO BEARER SETUP message for RF testing of Dual Carrier Adjacent Channels for HSDPA                                      | F   | 8.8.0           | 8.9.0       | R5-096280     |
| RP-45             | RP-091124     | 0799 | -   | New RF procedure for Dual Cell HSDPA                                                                                                             | F   | 8.8.0           | 8.9.0       | R5-096308     |
| RP-45             | RP-091119     | 0800 | -   | Correction to radio bearer configuration 6.10.2.4.6.6 for improved L2 UL                                                                         | F   | 8.8.0           | 8.9.0       | R5-096706     |
| RP-47             | RP-100141     | 0801 | -   | Corrections to Radio Bearer Setup A26                                                                                                            | F   | 8.9.0           | 8.10.0      | R5-100054     |
| RP-47             | RP-100140     | 0802 | -   | Corrections to Radio Bearer Setup message for A17b/c Configurations                                                                              | F   | 8.9.0           | 8.10.0      | R5-100241     |
| RP-47             | RP-100154     | 0803 | -   | CR to 34.108: Update of test frequencies for extended UMTS1500 operating bands                                                                   | F   | 8.9.0           | 8.10.0      | R5-100253     |
| RP-47             | RP-100137     | 0804 | -   | Addition of new combinations for LCR TDD RAB testing in 34.108                                                                                   | F   | 8.9.0           | 8.10.0      | R5-100336     |
| RP-47             | RP-100151     | 0805 | -   | Update of the default RADIO BEARER SETUP message to support enhanced CELL_FACH for LCR TDD                                                       | F   | 8.9.0           | 8.10.0      | R5-100337     |

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| RP-47             | RP-100157     | 0806 | -   | Introduction of Default Message Contents for CPC of 1.28Mcps TDD                                                                        | F   | 8.9.0           | 8.10.0      | R5-100388     |
| RP-47             | RP-100158     | 0807 | -   | Introduction of Default Message Contents for MIMO of 1.28Mcps TDD                                                                       | F   | 8.9.0           | 8.10.0      | R5-100389     |
| RP-47             | RP-100141     | 0808 | -   | Addition of reference HARQ Transmission Parameters for the combination of MIMO and 64QAM                                                | F   | 8.9.0           | 8.10.0      | R5-100525     |
| RP-47             | RP-100149     | 0809 | -   | CR to 34.108: Correction to RADIO BEARER SETUP condition for sub-test 5 in 5.2B test case                                               | F   | 8.9.0           | 8.10.0      | R5-100563     |
| RP-47             | RP-100150     | 0810 | -   | Correction to SIB5 for Enhanced CELL_FACH in UL and DL                                                                                  | F   | 8.9.0           | 8.10.0      | R5-100632     |
| RP-47             | RP-100150     | 0811 | -   | Addition of RRC Connection Setup Default Condition for Enhanced CELL_FACH in UL cases                                                   | F   | 8.9.0           | 8.10.0      | R5-100634     |
| RP-47             | RP-100150     | 0812 | -   | Addition of Default Radio Bearer Conditions for Enhanced UL in CELL_FACH                                                                | F   | 8.9.0           | 8.10.0      | R5-100635     |
| RP-47             | RP-100140     | 0814 | -   | Correction to default RRC Connection setup message for HS-DSCH in CELL_FACH                                                             | F   | 8.9.0           | 8.10.0      | R5-100681     |
| RP-47             | RP-100142     | 0819 | -   | Update of 9.2 Default RF Messages for TC7.8.5                                                                                           | F   | 8.9.0           | 8.10.0      | R5-100726     |
| RP-47             | RP-100149     | 0815 | -   | Update of the default RADIO BEARER SETUP message (FDD) for support of Dual Carrier Adjacent Channels for HSDPA for radio bearer testing | F   | 8.9.0           | 8.10.0      | R5-100769     |
| RP-47             | RP-100149     | 0816 | -   | Introduction of test frequencies to DC-HSDPA tests                                                                                      | F   | 8.9.0           | 8.10.0      | R5-100875     |
| RP-47             | RP-100140     | 0817 | -   | Correction to Enhanced CELL_FACH RAB configuration                                                                                      | F   | 8.9.0           | 8.10.0      | R5-101107     |
| RP-47             | RP-100149     | 0818 | -   | Update of physical channel params on HS-PDSCH for DC-HSDPA                                                                              | F   | 8.9.0           | 8.10.0      | R5-101181     |
| RP-47             | -             | -    | -   | Moved to v9.0.0 with no change                                                                                                          | -   | 8.10.0          | 9.0.0       | -             |
| RP-48             | RP-100508     | 0820 | -   | Correction to Radio Bearer Setup message for A17b & A17c Configurations                                                                 | F   | 9.0.0           | 9.1.0       | R5-103030     |
| RP-48             | RP-100523     | 0821 | -   | CR to 34.108: Introduction of test frequencies of band XXI to DC-HSDPA tests                                                            | F   | 9.0.0           | 9.1.0       | R5-103100     |
| RP-48             | RP-100511     | 0822 | -   | Default SIB5 contents for UEs supporting Enhanced UL/DL in CELL_FACH state                                                              | F   | 9.0.0           | 9.1.0       | R5-103152     |
| RP-48             | RP-100522     | 0823 | -   | Addition conditions in message RADIO BEARER SETUP and RRC CONNECTION SETUP for LCR TDD                                                  | F   | 9.0.0           | 9.1.0       | R5-103182     |
| RP-48             | RP-100508     | 0824 | -   | Specify the MAC-c header for the reference RB combinations on PRACH and HS-DSCH in 6.10.2.4.7                                           | F   | 9.0.0           | 9.1.0       | R5-103286     |
| RP-48             | RP-100525     | 0825 | -   | Adding eCall services support in Elementary File USIM Service Table - EFUST                                                             | F   | 9.0.0           | 9.1.0       | R5-103399     |
| RP-48             | RP-100511     | 0826 | -   | Aligning UTRAN USIM parameters for multi-RAT devices                                                                                    | F   | 9.0.0           | 9.1.0       | R5-103659     |
| RP-48             | RP-100518     | 0827 | -   | Addition of HNB related information                                                                                                     | F   | 9.0.0           | 9.1.0       | R5-103668     |
| RP-48             | RP-100508     | 0828 | -   | Amendment to some radio bearer configurations for 7.68 Mcps TDD                                                                         | F   | 9.0.0           | 9.1.0       | R5-103685     |
| RP-48             | RP-100517     | 0829 | -   | Correction to HS-SCCH configuration in RB Setup (DC-HSDPA)                                                                              | F   | 9.0.0           | 9.1.0       | R5-103725     |
| RP-48             | RP-100521     | 0833 | -   | Support for UMTS/LTE 800MHz for Europe in 34.108                                                                                        | F   | 9.0.0           | 9.1.0       | R5-103766     |
| RP-48             | RP-100505     | 0830 | -   | Addition band d and band e for LCR TDD in 34.108                                                                                        | F   | 9.0.0           | 9.1.0       | R5-103812     |
| RP-48             | RP-100519     | 0831 | -   | Correction to default Enhanced UL in CELL_FACH RB condition A29                                                                         | F   | 9.0.0           | 9.1.0       | R5-103862     |
| RP-49             | RP-100811     | 0834 | -   | Correction to Radio Bearer Setup message for MiMo configurations                                                                        | F   | 9.1.0           | 9.2.0       | R5-104320     |
| RP-49             | RP-100811     | 0835 | -   | Updating code allocation for MiMo configurations                                                                                        | F   | 9.1.0           | 9.2.0       | R5-104321     |
| RP-49             | RP-100830     | 0836 | -   | Addition of new combinations on HS-PDSCH and E-PUSCH for LCR TDD improved L2                                                            | F   | 9.1.0           | 9.2.0       | R5-104359     |
| RP-49             | RP-100833     | 0837 | -   | Addition of default message contents for WLAN interworking testing                                                                      | F   | 9.1.0           | 9.2.0       | R5-104397     |
| RP-49             | RP-100985     | 0838 | -   | Update of the default RADIO BEARER SETUP message (FDD) for support of Dual Carrier HSDPA                                                | F   | 9.1.0           | 9.2.0       | R5-104470     |
| RP-49             | RP-100811     | 0839 | -   | Correction to RB Setup message condition used for testcase 14.7.6b                                                                      | F   | 9.1.0           | 9.2.0       | R5-104570     |
| RP-49             | RP-100808     | 0840 | -   | Correcting default USIM contents                                                                                                        | F   | 9.1.0           | 9.2.0       | R5-104679     |
| RP-49             | RP-100985     | 0841 | -   | Correction to the explanation of A25 set of RBsetup                                                                                     | F   | 9.1.0           | 9.2.0       | R5-104680     |

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| RP-49             | RP-100811     | 0842 | -   | Change the default value of Qrxlevmin for LCR TDD                                                                            | F   | 9.1.0           | 9.2.0       | R5-105018     |
| RP-49             | RP-100808     | 0843 | -   | Clarification to the FDD inter-band network environment                                                                      | F   | 9.1.0           | 9.2.0       | R5-105031     |
| RP-50             | RP-101137     | 0844 | -   | Corrections to SIB5 contents for Enhanced Cell FACH DL testcases                                                             | F   | 9.2.0           | 9.3.0       | R5-106218     |
| RP-50             | RP-101137     | 0845 | -   | Corrections to RRC Connection setup contents for Enhanced Cell FACH DL testcases                                             | F   | 9.2.0           | 9.3.0       | R5-106219     |
| RP-50             | RP-101158     | 0846 | -   | Adding new IEs related to PPAC to the default system information block type 3                                                | F   | 9.2.0           | 9.3.0       | R5-106260     |
| RP-50             | RP-101134     | 0847 | -   | Addition SIB schedule for LCR TDD two S-CCPCH or two PRACH                                                                   | F   | 9.2.0           | 9.3.0       | R5-106343     |
| RP-50             | RP-101134     | 0848 | -   | Correction the TTI for LCR TDD 3.4kbps SRBs (multiframe)                                                                     | F   | 9.2.0           | 9.3.0       | R5-106344     |
| RP-50             | RP-101134     | 0849 | -   | Update for Band IX testing                                                                                                   | F   | 9.2.0           | 9.3.0       | R5-106382     |
| RP-50             | RP-101160     | 0850 | -   | Addition of radio bearer parameters for UE HS-DSCH Physical Layer category 25 to 28                                          | F   | 9.2.0           | 9.3.0       | R5-106435     |
| RP-50             | RP-101134     | 0851 | -   | Update of the default RADIO BEARER SETUP message (FDD) for support of SRBs mapped on E-DCH/DCH                               | F   | 9.2.0           | 9.3.0       | R5-106499     |
| RP-50             | RP-101134     | 0852 | -   | Correction to DL DPCH transmit power for 64 Kbps CS + 64 Kbps PS call                                                        | F   | 9.2.0           | 9.3.0       | R5-106669     |
| RP-50             | RP-101134     | 0853 | -   | Corrections to default settings of Elementary Files (EFs) on Test USIM                                                       | F   | 9.2.0           | 9.3.0       | R5-106701     |
| RP-50             | RP-101138     | 0854 | -   | GPS Assistance Data corrections                                                                                              | F   | 9.2.0           | 9.3.0       | R5-106814     |
| RP-51             | RP-110153     | 0855 | -   | Correction Physical channel parameters of downlink 128kbps PS RAB for LCR TDD in 34.108                                      | F   | 9.3.0           | 9.4.0       | R5-110615     |
| RP-51             | RP-110153     | 0856 | -   | Correction UARFCN and Frequency of band e for LCR TDD in 34.108                                                              | F   | 9.3.0           | 9.4.0       | R5-110620     |
| RP-51             | RP-110165     | 0857 | -   | Reduce the channel code for HS-SCCH and HS-SICH, and adjust channel code of E-AGCH and E-HICH for LCR TDD RADIO BEARER SETUP | F   | 9.3.0           | 9.4.0       | R5-110621     |
| RP-51             | RP-110154     | 0858 | -   | Reduce the channel code for HS-SCCH and HS-SICH for LCRTDD SIB5                                                              | F   | 9.3.0           | 9.4.0       | R5-110622     |
| RP-51             | RP-110165     | 0859 | -   | Addition of comments for Rel-8 UE behaviour in section 7.2.4 ( session setup)                                                | F   | 9.3.0           | 9.4.0       | R5-110667     |
| RP-51             | RP-110177     | 0860 | -   | Update of the default RADIO BEARER SETUP message (FDD) for support of combination of DC-HSDPA with MIMO                      | F   | 9.3.0           | 9.4.0       | R5-110695     |
| RP-52             | RP-110642     | 0861 | -   | Corrections to RRC Connection Setup message default contents for conditions A4 and A6                                        | F   | 9.4.0           | 9.5.0       | R5-112420     |
| RP-52             | RP-110651     | 0862 | -   | Correction to RB setup message for DC-HSDPA                                                                                  | F   | 9.4.0           | 9.5.0       | R5-112432     |
| RP-52             | RP-110667     | 0863 | -   | Addition of DB-DC-HSDPA into 34.108                                                                                          | F   | 9.4.0           | 9.5.0       | R5-112840     |
| RP-53             | RP-111150     | 0864 | -   | Adding RF procedure for DC-HSUPA tests                                                                                       | F   | 9.5.0           | 9.6.0       | R5-113080     |
| RP-53             | RP-111152     | 0865 | -   | Removal of A-GPS Assistance Data                                                                                             | F   | 9.5.0           | 9.6.0       | R5-113144     |
| RP-53             | RP-111131     | 0866 | -   | Correction the contents of PHYSICAL CHANNEL RECONFIGURATION in 34.108 for LCR TDD                                            | F   | 9.5.0           | 9.6.0       | R5-113244     |
| RP-53             | RP-111133     | 0867 | -   | Corrections to RRC Connection Setup message (Enhanced FACH Downlink)                                                         | F   | 9.5.0           | 9.6.0       | R5-113616     |
| RP-53             | RP-111146     | 0868 | -   | Modification for Rel-9 HNB protocol testing                                                                                  | F   | 9.5.0           | 9.6.0       | R5-113777     |
| RP-53             | RP-111142     | 0869 | -   | Corrections to Radio Bearer Setup message (DC-HSDPA)                                                                         | F   | 9.5.0           | 9.6.0       | R5-113791     |
| RP-53             | RP-111133     | 0870 | -   | Addition of the default RADIO BEARER SETUP message (FDD) for support of 16QAM+MIMO for HSDPA.                                | F   | 9.5.0           | 9.6.0       | R5-113799     |
| RP-54             | RP-111583     | 0871 | -   | Add new SIB scheduling for long SIB5/SIB5bis                                                                                 | F   | 9.6.0           | 9.7.0       | R5-115102     |
| RP-54             | RP-111597     | 0873 | -   | Adding band XXII (3500MHz) to 34.108                                                                                         | F   | 9.6.0           | 9.7.0       | R5-115192     |
| RP-54             | RP-111572     | 0874 | -   | Correction the TFCI code word / radio frame for downlink in 6.11.5.4.14 for LCR TDD                                          | F   | 9.6.0           | 9.7.0       | R5-115278     |
| RP-54             | RP-111571     | 0875 | -   | Use of IPv4 in session setup procedure                                                                                       | F   | 9.6.0           | 9.7.0       | R5-115369     |
| RP-54             | RP-111574     | 0876 | -   | Introduction of reference radio bearer combination for NISPC testing                                                         | F   | 9.6.0           | 9.7.0       | R5-115398     |

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| RP-54             | -             | -    | -   | Moved to Rel-10 with no change                                                                                            | -   | 9.7.0           | 10.0.0      | -             |
| RP-54             | RP-111601     | 0872 | -   | Addition of test procedure for performance requirement under multiple-cell scenario for 1,28 Mcps TDD                     | F   | 10.0.0          | 11.0.0      | R5-115130     |
| RP-55             | RP-120172     | 0879 | -   | LCR TDD enhancement of RRC messages to Rel-10                                                                             | F   | 11.0.0          | 11.1.0      | R5-120491     |
| RP-55             | RP-120194     | 0880 | -   | Addition of radio bearer parameters for UE E-DCH physical layer categories 8 and 9                                        | F   | 11.0.0          | 11.1.0      | R5-120539     |
| RP-55             | RP-120183     | 0881 | -   | Correction to Radio Bearer Setup message (mac-i/is)                                                                       | F   | 11.0.0          | 11.1.0      | R5-120605     |
| RP-55             | RP-120184     | 0882 | -   | Define generic procedure and default HSPA RB for IMS emergency call setup.                                                | F   | 11.0.0          | 11.1.0      | R5-120687     |
| RP-56             | RP-120663     | 0883 | -   | Introduction of default messages for ANR for UTRAN test cases                                                             | F   | 11.1.0          | 11.2.0      | R5-121101     |
| RP-56             | RP-120655     | 0884 | -   | Addition of Generic IMS Emergency call set up procedure for mobile originating packet switched sessions - Limited Service | F   | 11.1.0          | 11.2.0      | R5-121115     |
| RP-56             | RP-120664     | 0885 | -   | Update of System Information Block Type 3                                                                                 | F   | 11.1.0          | 11.2.0      | R5-121117     |
| RP-56             | RP-120664     | 0886 | -   | Addition of 4C-HSDPA into 34.108                                                                                          | F   | 11.1.0          | 11.2.0      | R5-121119     |
| RP-56             | RP-120648     | 0887 | -   | Introduce an access control class default value                                                                           | F   | 11.1.0          | 11.2.0      | R5-121120     |
| RP-56             | RP-120636     | 0888 | -   | Addition of default power levels of physical channels for LCR TDD                                                         | F   | 11.1.0          | 11.2.0      | R5-121124     |
| RP-56             | RP-120669     | 0889 | -   | Correction to references for A-GPS                                                                                        | F   | 11.1.0          | 11.2.0      | R5-121125     |
| RP-56             | RP-120656     | 0890 | -   | Introduction of default RRC messages for DC-HSUPA                                                                         | F   | 11.1.0          | 11.2.0      | R5-121255     |
| RP-56             | RP-120656     | 0891 | -   | Introduction of new reference radio bearer combination for DC-HSUPA MAC testing                                           | F   | 11.1.0          | 11.2.0      | R5-121355     |
| RP-56             | RP-120635     | 0892 | -   | Correction to QoS for requested bearer                                                                                    | F   | 11.1.0          | 11.2.0      | R5-121434     |
| RP-56             | RP-120648     | 0893 | -   | Clarification of the scope of Band a for 1.28 Mcps TDD option in TS 34.108                                                | F   | 11.1.0          | 11.2.0      | R5-121454     |
| RP-56             | RP-120640     | 0894 | -   | Correction to RF Default Messages for TDD in 34.108                                                                       | F   | 11.1.0          | 11.2.0      | R5-121537     |
| RP-56             | RP-120648     | 0895 | -   | Correction of enhanced CELL_FACH uplink channel configuration                                                             | F   | 11.1.0          | 11.2.0      | R5-121688     |
| RP-56             | RP-120648     | 0896 | -   | Addition of default System Information Block Type 19 into 34.108                                                          | F   | 11.1.0          | 11.2.0      | R5-121718     |
| RP-56             | RP-120664     | 0897 | -   | Update of Radio Bearer Reconfiguration Message                                                                            | F   | 11.1.0          | 11.2.0      | R5-121818     |
| RP-56             | RP-120664     | 0898 | -   | Update of the default RADIO BEARER SETUP message (FDD) for support of 4C HSDPA                                            | F   | 11.1.0          | 11.2.0      | R5-121819     |
| RP-56             | RP-120640     | 0899 | -   | Correction to Default SI Messages for TDD in 34.108                                                                       | F   | 11.1.0          | 11.2.0      | R5-121943     |
| RP-56             | RP-120656     | 0900 | -   | Definition of default RB SETUP message for DC-HSUPA RF tests in section 9.2                                               | F   | 11.1.0          | 11.2.0      | R5-121953     |
| RP-56             | RP-120656     | 0901 | -   | RB SETUP message for DC-HSUPA RF tests                                                                                    | F   | 11.1.0          | 11.2.0      | R5-121993     |
| RP-57             | RP-121090     | 0902 | -   | Change the UL and DL Transport channel information common in RB release message for A5-A8 and A10 for LCR TDD in 34.108   | F   | 11.2.0          | 11.3.0      | R5-123193     |
| RP-57             | RP-121093     | 0903 | -   | Addition some IE's default value for LCR TDD in 34.108                                                                    | F   | 11.2.0          | 11.3.0      | R5-123195     |
| RP-57             | RP-121109     | 0904 | -   | Correction to radio beared message content for DC-HSUPA tests                                                             | F   | 11.2.0          | 11.3.0      | R5-123240     |
| RP-57             | RP-121103     | 0905 | -   | Correction of reference test frequency in band e for 1.28 Mcps option                                                     | F   | 11.2.0          | 11.3.0      | R5-123374     |
| RP-57             | RP-121109     | 0906 | -   | Correction to RADIO BEARER SETUP message for DC-HSUPA protocol testing                                                    | F   | 11.2.0          | 11.3.0      | R5-123471     |
| RP-57             | RP-121111     | 0907 | -   | Adding FDD reference test frequencies for Operating Band XXV                                                              | F   | 11.2.0          | 11.3.0      | R5-123711     |
| RP-57             | RP-121094     | 0908 | -   | Correction to Default SIB5 for TDD in 34.108                                                                              | F   | 11.2.0          | 11.3.0      | R5-123717     |
| RP-57             | RP-121102     | 0909 | -   | Correction to default contents of Radio Bearer Setup message for configuration A19a in 34.108                             | F   | 11.2.0          | 11.3.0      | R5-123745     |
| RP-57             | RP-121090     | 0910 | -   | Addition default physical channels code allocation for Signalling for LCR TDD in 34.108                                   | F   | 11.2.0          | 11.3.0      | R5-123770     |
| RP-58             | RP-121654     | 0911 | -   | Addition of new condition A19b to default message content for Radio Bearer setup message                                  | F   | 11.3.0          | 11.4.0      | R5-125082     |

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| RP-58             | RP-121673     | 0912 | -   | Addition of 16QAM related IEs to RB Setup message for DC-HSUPA                                                                            | F   | 11.3.0          | 11.4.0      | R5-125248     |
| RP-58             | RP-121663     | 0913 | -   | Correction to MAC-ehs window size in RB SETUP message(DC-HSDPA)                                                                           | F   | 11.3.0          | 11.4.0      | R5-125400     |
| RP-58             | RP-121705     | 0914 | -   | Addition of a connection set up procedure for CS+PS multi RAB combination.                                                                | F   | 11.3.0          | 11.4.0      | R5-125480     |
| RP-58             | RP-121663     | 0915 | -   | Clarification of IPv6 signalling                                                                                                          | F   | 11.3.0          | 11.4.0      | R5-125676     |
| RP-58             | RP-121654     | 0916 | -   | Correction to default RADIO BEARER SETUP message (FDD) condition A28a for support of MIMO/Non-MIMO Co-existence Tests                     | F   | 11.3.0          | 11.4.0      | R5-125677     |
| RP-58             | RP-121680     | 0917 | -   | Update of the default RADIO BEARER SETUP message (FDD) for support of 4C HSDPA                                                            | F   | 11.3.0          | 11.4.0      | R5-125688     |
| RP-58             | RP-121653     | 0918 | -   | Correction some parameters value in 34.108 for LCR TDD                                                                                    | F   | 11.3.0          | 11.4.0      | R5-126014     |
| RP-59             | RP-130145     | 0919 | -   | Correction the default value of RACH and E-RUCCH in SIB5 for 1.28Mcps TDD                                                                 | F   | 11.4.0          | 11.5.0      | R5-130165     |
| RP-59             | RP-130145     | 0920 | -   | Correction of default RADIO BEARER SETUP message for DC-HSUPA testing.                                                                    | F   | 11.4.0          | 11.5.0      | R5-130235     |
| RP-59             | RP-130145     | 0921 | -   | Addition of test frequencies for DC-HSUPA                                                                                                 | F   | 11.4.0          | 11.5.0      | R5-130236     |
| RP-60             | RP-130625     | 0922 | -   | Addition of default IEs for MDT                                                                                                           | F   | 11.5.0          | 11.6.0      | R5-131420     |
| RP-60             | RP-130609     | 0923 | -   | Addition of FDD reference test frequencies for Operating Band XXVI (FDD26) into TS 34.108                                                 | F   | 11.5.0          | 11.6.0      | R5-131755     |
| RP-60             | RP-130621     | 0924 | -   | Test frequencies for 3C/4C HSDPA                                                                                                          | F   | 11.5.0          | 11.6.0      | R5-131773     |
| RP-60             | RP-130611     | 0925 | -   | Update the default message content of RRC CONNECTION REQUEST                                                                              | F   | 11.5.0          | 11.6.0      | R5-131874     |
| RP-61             | RP-131099     | 0926 | -   | Correction of specific Message contents of Radio Bearer Setup message for condition A25b, A17d and A17e                                   | F   | 11.6.0          | 11.7.0      | R5-133096     |
| RP-61             | RP-131102     | 0927 | -   | Correction the contents of condition A19 and A20 for RADIO BEARER SETUP of 1.28Mcps TDD                                                   | F   | 11.6.0          | 11.7.0      | R5-133209     |
| RP-61             | RP-131112     | 0928 | -   | Correction to default ACTIVE SET UPDATE message                                                                                           | F   | 11.6.0          | 11.7.0      | R5-133211     |
| RP-61             | RP-131100     | 0929 | -   | Correction to Midamble configuration in SIB5(1.28 Mcps TDD)                                                                               | F   | 11.6.0          | 11.7.0      | R5-133439     |
| RP-61             | RP-131100     | 0930 | -   | Addition of Procedure for IP address allocation in the U-plane                                                                            | F   | 11.6.0          | 11.7.0      | R5-133560     |
| RP-61             | RP-131100     | 0931 | -   | Definition of default contents for EF HPLMNwAcT on TestUSIM                                                                               | F   | 11.6.0          | 11.7.0      | R5-133561     |
| RP-61             | RP-131112     | 0932 | -   | Update of RB Setup for Conditions A33, A34, A35 and A36                                                                                   | F   | 11.6.0          | 11.7.0      | R5-133634     |
| RP-61             | RP-131257     | 0933 | -   | Correction the default configuration for FACH of 1.28Mcps TDD                                                                             | F   | 11.6.0          | 11.7.0      | R5-133724     |
| RP-61             | RP-131121     | 0934 | -   | Addition of test procedure for RF to configure UL CLTD                                                                                    | F   | 11.6.0          | 11.7.0      | R5-133877     |
| RP-62             | RP-131875     | 0935 | -   | Update of RB Setup for Conditions A33, A34, A35 and A36 and addition of new condition A37                                                 | F   | 11.7.0          | 11.8.0      | R5-134693     |
| RP-62             | RP-131875     | 0936 | -   | Introduction of FDD downlink physical channels code allocation for E-DCH signalling testing using HSDPA configuration with 64QAM and MIMO | F   | 11.7.0          | 11.8.0      | R5-134694     |
| RP-62             | RP-131858     | 0937 | -   | Correction of the value of UL target SIR for DPCH for LCR TDD                                                                             | F   | 11.7.0          | 11.8.0      | R5-134734     |
| RP-62             | RP-131857     | 0938 | -   | Correction to reference test frequencies for Band XII, XXV and XXVI                                                                       | F   | 11.7.0          | 11.8.0      | R5-134905     |
| RP-62             | RP-131878     | 0939 | -   | Addition of default IEs for eMDT                                                                                                          | F   | 11.7.0          | 11.8.0      | R5-134915     |
| RP-62             | RP-131881     | 0940 | -   | Addition of test procedure for UL OLTD                                                                                                    | F   | 11.7.0          | 11.8.0      | R5-134971     |
| RP-63             | RP-140303     | 0941 | -   | Correction of Midamble Configuration for LCR TDD                                                                                          | F   | 11.8.0          | 11.9.0      | R5-140195     |
| RP-63             | RP-140324     | 0942 | -   | Addition of test procedure to configure UL CLTD with E-DCH                                                                                | F   | 11.8.0          | 11.9.0      | R5-140472     |
| RP-63             | RP-140324     | 0943 | -   | Addition of test procedure for RF to configure UL OLTD with E-DCH                                                                         | F   | 11.8.0          | 11.9.0      | R5-140533     |
| RP-63             | RP-140308     | 0944 | -   | Correction to Default Radio Bearer Setup message                                                                                          | F   | 11.8.0          | 11.9.0      | R5-140676     |
| RP-63             | R5-140319     | 0945 | -   | Minor correction of 4C-HSDPA RADIO BEARER SETUP                                                                                           | F   | 11.8.0          | 11.9.0      | R5-140677     |



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| RP-63             | RP-140306     | 0946 | -   | Correction to default RADIO BEARER SETUP message (DC-HSDPA, DB-DC-HSDPA and 4C)            | F   | 11.8.0          | 11.9.0      | R5-140678     |
| RP-63             | RP-140306     | 0947 | -   | Introduction of generic HOLD and MPTT set up procedures                                    | F   | 11.8.0          | 11.9.0      | R5-140683     |
| RP-63             | RP-140306     | 0948 | -   | Adding default messages for supplementary service testing                                  | F   | 11.8.0          | 11.9.0      | R5-140684     |
| RP-63             | RP-140330     | 0949 | -   | Update Radio Bearer Setup message for Multiflow HSDPA tests                                | F   | 11.8.0          | 11.9.0      | R5-140964     |
| RP-64             | RP-140836     | 0950 | -   | Update Radio Bearer Setup message for Multiflow HSDPA tests                                | F   | 11.9.0          | 11.10.0     | R5-142116     |
| RP-64             | RP-140811     | 0951 | -   | Update to clause 6.10.2.4.6.1.                                                             | F   | 11.9.0          | 11.10.0     | R5-142118     |
| RP-64             | RP-140812     | 0952 | -   | Correction to MPTT call setup procedure                                                    | F   | 11.9.0          | 11.10.0     | R5-142136     |
| RP-64             | RP-140810     | 0953 | -   | Correction of Midamble Configuration of FPACH for LCR TDD                                  | F   | 11.9.0          | 11.10.0     | R5-142291     |
| RP-64             | RP-140837     | 0954 | -   | Addition of default message content for SIB21                                              | F   | 11.9.0          | 11.10.0     | R5-142418     |
| RP-64             | RP-140810     | 0955 | -   | Correction to Radio Bearer Setup Message for TD-SCDMA                                      | F   | 11.9.0          | 11.10.0     | R5-142431     |
| RP-64             | RP-140836     | 0956 | -   | Addition of Multiflow HSDPA into TS 34.108                                                 | F   | 11.9.0          | 11.10.0     | R5-142805     |
| RP-64             | RP-140837     | 0957 | -   | Addition of SIB schedule for EAB test cases                                                | F   | 11.9.0          | 11.10.0     | R5-142807     |
| RP-65             | RP-141592     | 0958 | -   | Update Radio Bearer Setup message for Multiflow HSDPA tests                                | F   | 11.10.0         | 11.11.0     | R5-144261     |
| RP-65             | RP-141575     | 0959 | -   | Updates to section 7.5 and addition of new clauses 7.5.6, 7.5.7, 7.5.8 and 7.5.9 of 34.108 | F   | 11.10.0         | 11.11.0     | R5-144408     |
| RP-65             | RP-141575     | 0960 | -   | Update to missing dual band combinations of 4C-HSDPA configurations                        | F   | 11.10.0         | 11.11.0     | R5-144532     |
| RP-65             | RP-141570     | 0961 | -   | Editorial correction to Radio bearer Setup Message for TD-SCDMA                            | F   | 11.10.0         | 11.11.0     | R5-144623     |
| RP-65             | RP-141591     | 0962 | -   | Adding SIB22 scheduling and SIB22 default message for Enhanced CELL_FACH testing           | F   | 11.10.0         | 11.11.0     | R5-144708     |
| RP-65             | RP-141575     | 0963 | -   | Addition of E-UTRA Capability in RRC Connection Setup                                      | F   | 11.10.0         | 11.11.0     | R5-144813     |
| RP-66             | RP-142053     | 0964 | -   | Corrections to the default message contents for SS                                         | F   | 11.11.0         | 11.12.0     | R5-145090     |
| RP-66             | RP-142072     | 0965 | -   | New common procedure for Active Set Update                                                 | F   | 11.11.0         | 11.12.0     | R5-145141     |
| RP-66             | RP-142053     | 0966 | -   | Correction to frequency band indicator for SIB5                                            | F   | 11.11.0         | 11.12.0     | R5-145171     |
| RP-66             | RP-142053     | 0967 | -   | Correction to default value of System Information Block type 5 for FDD                     | F   | 11.11.0         | 11.12.0     | R5-145647     |
| RP-66             | RP-142058     | 0968 | -   | Corrections in the default RADIO BEARER SETUP message for 4C HSDPA                         | F   | 11.11.0         | 11.12.0     | R5-145758     |
| RP-66             | RP-142072     | 0969 | -   | Corrections in the default RADIO BEARER SETUP message for Multiflow                        | F   | 11.11.0         | 11.12.0     | R5-145759     |
| RP-66             | RP-142072     | 0970 | -   | Introduction of a new configuration A17f in default RADIO BEARER SETUP message             | F   | 11.11.0         | 11.12.0     | R5-145760     |
| RP-67             | RP-150322     | 0971 | -   | Correction to Contents of System Information Block Type 5 for condition B2 & B3            | F   | 11.12.0         | 11.13.0     | R5-150096     |
| RP-67             | RP-150322     | 0972 | -   | Correction to default value of System Information Block type 5 for FDD                     | F   | 11.12.0         | 11.13.0     | R5-150153     |
| RP-67             | RP-150325     | 0973 | -   | Corrections in the default RADIO BEARER SETUP message for DC-HSDPA with MIMO               | F   | 11.12.0         | 11.13.0     | R5-150541     |
| RP-67             | RP-150327     | 0974 | -   | Corrections in the default RADIO BEARER SETUP message for 4C-HSDPA                         | F   | 11.12.0         | 11.13.0     | R5-150542     |
| RP-67             | RP-150339     | 0975 | -   | Corrections in the default RADIO BEARER SETUP message for Multiflow                        | F   | 11.12.0         | 11.13.0     | R5-150544     |
| RP-67             | RP-150322     | 0976 | -   | Correction to UTRAN Radio Bearer Setup Message for condition A30                           | F   | 11.12.0         | 11.13.0     | R5-150605     |
| RP-67             | RP-150321     | 0977 | -   | Correction to the default RADIO BEARER SETUP message for A28a MIMO/nonMIMO                 | F   | 11.12.0         | 11.13.0     | R5-150619     |
| RP-68             | RP-150886     | 0983 | -   | Correction to RADIO BEARER SETUP message condition A25c                                    | F   | 11.13.0         | 11.14.0     | R5-151712     |
| RP-68             | RP-150904     | 0982 | 1   | Correction to the multiple messages to include Rel. 11 and Rel. 12 IEs                     | F   | 11.14.0         | 12.0.0      | R5-151729     |
| RP-68             | RP-150905     | 0978 | 1   | Addition of band XXXII to 34.108                                                           | F   | 11.14.0         | 12.0.0      | R5-151886     |
| RP-68             | RP-150903     | 0979 | 1   | Introduction of Reference system configuration for UTRA-WLAN interworking                  | F   | 11.14.0         | 12.0.0      | R5-151991     |

| Meeting-1st-Level | Doc-1st-Level | CR   | Rev | Subject                                                                                                                                     | Cat | Version-Current | Version-New | Doc-2nd-Level |
|-------------------|---------------|------|-----|---------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------|-------------|---------------|
| RP-68             | RP-150903     | 0980 | 1   | Corrections to preamble steps for UTRA-WLAN interworking                                                                                    | F   | 11.14.0         | 12.0.0      | R5-151992     |
| RP-68             | RP-150903     | 0981 | 1   | Adding contents Dedicated WLAN offload information in UTRAN Mobility Information                                                            | F   | 11.14.0         | 12.0.0      | R5-151993     |
| RP-69             | RP-151424     | 0984 | -   | Addition of new state and procedure to be used in WLAN interworking test cases                                                              | F   | 12.0.0          | 12.1.0      | R5-153324     |
| RP-69             | RP-151408     | 0986 | 1   | Correction to the default message contents of CM SERVICE REQUEST message                                                                    | F   | 12.0.0          | 12.1.0      | R5-153983     |
| RP-69             | -             | -    | -   | update of the "non-specific references" in section 2 according to the approved R5-153582 and an action point on ETSI MCC                    | -   | 12.0.0          | 12.1.0      | -             |
| RP-72             | RP-160845     | 0990 | -   | Editorial correction in RRC Connection setup message                                                                                        | F   | 12.1.0          | 12.2.0      | R5-162183     |
| RP-72             | RP-160845     | 0991 | 1   | Correction to RRC Connection setup message for condition UTRAN to E-UTRA                                                                    | F   | 12.1.0          | 12.2.0      | R5-162753     |
| RP-73             | RP-161426     | 0992 | 1   | Correction to System Information Block Type 5 (Enhanced CellFACH uplink)                                                                    | F   | 12.2.0          | 12.3.0      | R5-165884     |
| RP-73             | RP-161437     | 0993 | -   | Correction to URA Update message                                                                                                            | F   | 12.2.0          | 12.3.0      | R5-165902     |
| RP-75             | RP-170107     | 0994 | 1   | Addition of MFBI test frequencies for UTRAN                                                                                                 | F   | 12.3.0          | 12.4.0      | R5-171398     |
| RP-75             | -             | -    | -   | Administrative release upgrade to match the release of 3GPP TS 34.121-1 which was upgraded at RAN#74 to Rel-14 due to Rel-14 relevant CR(s) | -   | 12.4.0          | 13.0.0      | -             |
| RP-75             | -             | -    | -   | Administrative release upgrade to match the release of 3GPP TS 34.121-1 which was upgraded at RAN#74 to Rel-14 due to Rel-14 relevant CR(s) | -   | 13.0.0          | 14.0.0      | -             |
| RP-76             | RP-171380     | 0996 | 1   | Addition of the HPD or DASH streaming service entry in Table Example of linkage between RABs and services                                   | F   | 14.0.0          | 14.1.0      | R5-172979     |
| RP-80             | RP-180726     | 0999 | -   | Removal of the redundant entries of linkage between RAB and service                                                                         | F   | 14.1.0          | 14.2.0      | R5-182783     |
| RP-80             | -             | -    | -   | administratively upgraded to Rel-15 with no change                                                                                          | -   | 14.2.0          | 15.0.0      | -             |
| RP-83             | RP-190087     | -    | -   | Updates to EFPLMNwAcT and EFHPLMNwAcT                                                                                                       | F   | 15.0.0          | 15.1.0      | R5-191351     |

# History

| Document history |                |             |
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